



April 3, 2006

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL  
  
SITE: CIRCLE K STORE 05426  
8510 GRAVENSTEIN HIGHWAY  
COTATI, CALIFORNIA  
  
RE: QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for Circle K Store 05426, located at 8510 Gravenstein Highway, Cotati, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in black ink that reads 'Anju Farfan'.

Anju Farfan  
QMS Operations Manager

CC: Mr. Thomas Potter, SECOR International, Inc. (3 copies)

Enclosures  
20-0400/05426R10.QMS





**QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006**

CIRCLE K STORE 05426  
8510 Gravenstein Highway  
Cotati, California

Prepared For:

Mr. Thomas H. Kosel  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations  
March 29, 2006



## LIST OF ATTACHMENTS

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Coordinated Event Data	<i>Arco Service Station # 1341</i> Table 1: Groundwater Elevation and Analytical Data Table 2: Oxygenate Analytical Data Table 3: Historical Volatile Organic Compound Data
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 2/15/06 Groundwater Sampling Field Notes – 2/15/06
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Statement	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**January 2006 through March 2006**  
**Circle K Store 05426**  
**8510 Gravenstein Highway**  
**Cotati, CA**

Project Coordinator: **Thomas H. Kosel**  
Telephone: **916-588-7666**

Water Sampling Contractor: **TRC**  
Compiled by: **Daniel Lee**

Date(s) of Gauging/Sampling Event: **02/15/06**

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**Sample Points**

Groundwater wells: **5** onsite, **1** offsite      Wells gauged: **6**      Wells sampled: **6**  
Purging method: **Diaphragm pump**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **n/a**

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**Liquid Phase Hydrocarbons (LPH)**

Wells with LPH: **0**      Maximum thickness (feet): **n/a**  
LPH removal frequency: **n/a**      Method: **n/a**  
Treatment or disposal of water/LPH: **n/a**

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **7.4 feet**      Maximum: **8.73 feet**  
Average groundwater elevation (relative to available local datum): **95.44 feet**  
Average change in groundwater elevation since previous event: **2.03 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **\*see notes**  
    Previous event: **0.01 ft/ft, northeast (11/09/05)**

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**Selected Laboratory Results**

Wells with detected **Benzene**: **3**      Wells above MCL (1.0 µg/l): **2**  
    Maximum reported benzene concentration: **180 µg/l (MW-2)**  
Wells with **TPPH 8260B**      **6**      Maximum: **5,400 µg/l (MW-7)**  
Wells with **MTBE**      **6**      Maximum: **180 µg/l (MW-7)**

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**Notes:**

\*Groundwater gradient is 0.01 ft/ft northeast to northwest.

# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND <	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

### ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A “J” flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

### REFERENCE

TRC began groundwater monitoring and sampling for Circle K Store 05426 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

# Contents of Tables

## Site: Circle K Store 05426

### Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
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Table 1a	Well/ Date	TPH-D
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### Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
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Table 2a	Well/ Date	TPH-D	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	TRPH	Cadmium (dissolved)	Chromium (total)	Lead (total)	Nickel (dissolved)	Zinc (dissolved)
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**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 15, 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-2</b>														
02/15/06	102.98	8.53	0.00	94.45	1.92	--	1500	180	3.8	16	54	--	14	
<b>MW-6</b>														
02/15/06	104.25	7.40	0.00	96.85	3.12	--	92	0.53	ND<0.50	ND<0.50	1.9	--	14	
<b>MW-7</b>														
02/15/06	103.82	7.91	0.00	95.91	2.69	--	5400	59	ND<0.50	160	60	--	180	
<b>MW-8</b>														
02/15/06	103.20	8.73	0.00	94.47	1.91	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	49	
<b>MW-9</b>														
02/15/06	102.64	7.42	0.00	95.22	1.33	--	860	ND<0.50	ND<0.50	2.0	ND<1.0	--	7.4	
<b>OW</b>														
02/15/06	103.78	8.03	0.00	95.75	1.22	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D	(µg/l)
<b>MW-2</b> 02/15/06	230	
<b>MW-6</b> 02/15/06	ND<50	
<b>MW-7</b> 02/15/06	470	
<b>MW-8</b> 02/15/06	ND<50	
<b>MW-9</b> 02/15/06	57	
<b>OW</b> 02/15/06	270	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-2</b>														
10/07/91	--	--	--	--	--	--	--	60	70	18	110	--	--	
09/01/93	--	--	--	--	--	270	--	65	22	13	40	--	--	
12/30/95	--	--	--	--	--	1300	--	450	6	20	25	--	--	
01/29/96	102.99	5.50	--	97.49	--	--	--	--	--	--	--	--	--	
12/18/96	102.99	8.01	--	94.98	-2.51	1700	--	410	48	73	180	25	--	
04/17/97	102.99	12.78	--	90.21	-4.77	2100	--	400	34	95	180	ND	--	
06/20/97	102.98	9.88	--	93.10	2.89	2300	--	550	9	82	110	ND	--	
09/03/97	102.98	10.92	--	92.06	-1.04	1500	--	490	17	64	100	42	--	
10/01/97	102.98	11.21	--	91.77	-0.29	--	--	--	--	--	--	--	--	
12/02/97	102.98	8.11	--	94.87	3.10	2900	--	1100	41	150	270	ND	--	
09/02/98	102.98	9.65	--	93.33	-1.54	1100	--	260	15.3	37.4	86.2	26.8	--	
02/04/99	102.98	6.89	--	96.09	2.76	800	--	150	ND	48	25	130	--	
05/04/99	102.98	7.14	--	95.84	-0.25	1200	--	140	ND	20	14	220	--	
08/05/99	102.98	10.52	--	92.46	-3.38	720	--	160	ND	28	52	96	--	
11/18/99	102.98	10.91	--	92.07	-0.39	990	--	330	9.9	46	100	33	--	
02/18/00	102.98	7.48	--	95.50	3.43	850	--	150	2	11	17	25	--	
05/18/00	102.98	9.66	--	93.32	-2.18	ND	--	ND	ND	ND	ND	ND	--	
08/17/00	102.98	11.58	--	91.40	-1.92	4370	--	2000	ND	ND	32.2	ND	--	
11/14/00	102.98	11.90	--	91.08	-0.32	2100	--	1100	9.1	67	100	46	--	
02/20/01	102.98	9.25	0.00	93.73	2.65	ND	--	ND	ND	ND	ND	ND	--	
05/04/01	102.98	10.58	0.00	92.40	-1.33	1100	--	630	3.5	20	27	38	--	
08/20/01	102.98	12.25	0.00	90.73	-1.67	4100	--	2000	ND<20	28	47	ND<100	--	
11/19/01	102.98	11.25	0.00	91.73	1.00	2400	--	890	ND<10	21	23	ND<100	--	

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-2 continued</b>														
02/19/02	102.98	9.61	0.00	93.37	1.64	160	--	31	ND<0.50	1.5	1.2	7.1	--	
05/23/02	102.98	10.67	--	92.31	-1.06	2700	--	970	ND<10	34	33	ND<100	--	
08/21/02	102.98	12.17	--	90.81	-1.50	3000	--	1400	13	18	57	89	--	
11/19/02	102.98	11.28	--	91.70	0.89	490	--	77	ND<5.0	ND<5.0	ND<5.0	13	--	
02/12/03	102.98	9.32	--	93.66	1.96	54	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5	--	
05/14/03	102.98	9.28	--	93.70	0.04	ND<50	--	0.98	ND<0.50	ND<0.50	ND<0.50	10	--	
08/13/03	102.98	11.58	0.00	91.40	-2.30	--	680	160	4.1	5.7	19	--	30	
11/13/03	102.98	12.10	0.00	90.88	-0.52	--	1100	160	ND<2.5	3.0	ND<5.0	--	420	
02/12/04	102.98	9.64	0.00	93.34	2.46	--	860	280	ND<2.5	9.8	33	--	220	
05/14/04	102.98	10.93	0.00	92.05	-1.29	--	1700	350	3.3	7.9	47	--	390	
08/17/04	102.98	11.89	0.00	91.09	-0.96	--	710	77	1.3	3.5	6.4	--	88	
11/12/04	102.98	10.72	0.00	92.26	1.17	--	1100	200	1.5	14	27	--	92	
02/07/05	102.98	9.36	0.00	93.62	1.36	--	2500	390	4.3	17	100	--	65	
05/10/05	102.98	9.13	0.00	93.85	0.23	--	1600	320	3.7	9.4	32	--	38	
08/22/05	102.98	10.85	0.00	92.13	-1.72	--	1400	190	2.5	2.9	7.0	--	23	
11/09/05	102.98	10.45	0.00	92.53	0.40	--	840	69	0.91	1.2	1.5	--	14	
02/15/06	102.98	8.53	0.00	94.45	1.92	--	1500	180	3.8	16	54	--	14	
<b>MW-6</b>														
01/29/96	104.26	6.74	--	97.52	--	300	--	ND	ND	ND	0.6	ND	--	
12/18/96	104.26	8.91	0.00	95.35	-2.17	290	--	9	0.53	ND	ND	46	--	
04/17/97	104.25	9.11	0.00	95.14	-0.21	340	--	ND	ND	ND	ND	4	--	
06/20/97	104.25	10.89	--	93.36	-1.78	230	--	ND	ND	ND	ND	14	--	
09/03/97	104.25	12.27	--	91.98	-1.38	170	--	3.4	ND	ND	ND	13	--	
10/01/97	104.25	12.64	--	91.61	-0.37	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-6 continued</b>														
12/02/97	104.25	8.84	--	95.41	3.80	230	--	5.5	0.96	ND	ND	160	--	
09/02/98	104.25	10.87	--	93.38	-2.03	375	--	ND	ND	ND	ND	32.4	--	
02/04/99	104.25	7.88	--	96.37	2.99	220	--	3	0.52	ND	ND	83	--	
05/04/99	104.25	7.96	--	96.29	-0.08	180	--	3.4	0.78	ND	2.6	53	--	
08/05/99	104.25	11.47	--	92.78	-3.51	61	--	5.2	0.77	ND	1.7	29	--	
11/18/99	104.25	12.40	--	91.85	-0.93	350	--	7.2	0.54	ND	ND	28	--	
02/18/00	104.25	7.57	--	96.68	4.83	110	--	6.8	ND	ND	ND	29	--	
05/18/00	104.25	10.35	--	93.90	-2.78	136	--	ND	ND	ND	ND	9.35	--	
08/17/00	104.25	12.51	--	91.74	-2.16	ND	--	ND	ND	ND	ND	10.3	--	
11/14/00	104.25	12.96	--	91.29	-0.45	210	--	3.4	ND	ND	0.61	91	--	
02/20/01	104.25	9.11	0.00	95.14	3.85	237	--	1.49	ND	ND	ND	24.9	--	
05/04/01	104.25	11.34	0.00	92.91	-2.23	210	--	18	ND	ND	0.75	24	--	
08/20/01	104.25	12.38	0.00	91.87	-1.04	87	--	1.0	0.57	ND<0.50	2.0	19	--	
11/19/01	104.25	11.88	0.00	92.37	0.50	87	--	10	ND<0.50	ND<0.50	ND<0.50	21	--	
02/19/02	104.25	9.81	0.00	94.44	2.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
05/23/02	104.25	11.31	--	92.94	-1.50	ND<50	--	0.62	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
08/21/02	104.25	13.39	--	90.86	-2.08	ND<50	--	5.7	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
11/19/02	104.25	11.67	--	92.58	1.72	ND<1000	--	ND<10	ND<10	ND<10	ND<10	15	--	
02/12/03	104.25	9.81	--	94.44	1.86	80	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.6	--	
05/14/03	104.25	9.37	--	94.88	0.44	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
08/13/03	104.25	12.51	0.00	91.74	-3.14	--	91	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.9	
11/13/03	104.25	13.34	0.00	90.91	-0.83	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	68	
02/12/04	104.25	10.07	0.00	94.18	3.27	--	170	0.53	2.8	0.73	3.9	--	26	
05/14/04	104.25	11.62	0.00	92.63	-1.55	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-6 continued</b>														
08/17/04	104.25	12.88	0.00	91.37	-1.26	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	22	
11/12/04	104.25	10.98	0.00	93.27	1.90	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	54	
02/07/05	104.25	9.60	0.00	94.65	1.38	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
05/10/05	104.25	9.29	0.00	94.96	0.31	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	29	
08/22/05	104.25	11.45	0.00	92.80	-2.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	22	
11/09/05	104.25	10.52	0.00	93.73	0.93	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
02/15/06	104.25	7.40	0.00	96.85	3.12	--	92	0.53	ND<0.50	ND<0.50	1.9	--	14	
<b>MW-7</b>														
01/29/96	103.83	6.71	--	97.12	--	8900	--	1800	ND	700	450	1300	--	
12/18/96	103.83	8.88	--	94.95	-2.17	8900	--	1800	22	370	240	6400	--	
04/17/97	103.83	9.06	0.00	94.77	-0.18	ND	--	1700	ND	590	570	25000	29000	
D 04/17/97	103.83	9.06	0.00	94.77	-0.18	ND	--	1800	ND	640	610	28000	--	
06/20/97	103.82	10.56	--	93.26	-1.51	14000	--	2400	ND	440	440	25000	--	
D 06/20/97	103.82	10.56	--	93.26	-1.51	ND	--	2500	ND	490	490	23000	--	
09/03/97	103.82	11.68	--	92.14	-1.12	12000	--	4000	ND	510	260	12000	--	
10/01/97	103.82	11.96	--	91.86	-0.28	--	--	--	--	--	--	--	--	
12/02/97	103.82	8.82	--	95.00	3.14	8900	--	2500	ND	500	320	14000	--	
09/02/98	103.82	10.41	--	93.41	-1.59	ND	--	ND	ND	ND	ND	ND	--	
02/04/99	103.82	7.86	--	95.96	2.55	13000	--	1500	190	710	660	28000	--	
05/04/99	103.82	8.28	--	95.54	-0.42	14000	--	1600	ND	1000	1200	22000	--	
08/05/99	103.82	11.16	--	92.66	-2.88	7800	--	1200	ND	720	610	14000	--	
11/18/99	103.82	11.72	--	92.10	-0.56	8300	--	1400	ND	570	390	12000	--	
02/18/00	103.82	7.68	--	96.14	4.04	7200	--	890	ND	680	590	10000	--	
05/18/00	103.82	10.13	--	93.69	-2.45	5250	--	386	ND	436	239	4710	3950	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-7 continued</b>														
08/17/00	103.82	12.07	--	91.75	-1.94	4290	--	309	ND	124	38	3050	--	
11/14/00	103.82	12.59	--	91.23	-0.52	6500	--	690	ND	550	210	3500	--	
02/20/01	103.82	9.64	0.00	94.18	2.95	5760	--	350	ND	190	74	3410	--	
05/04/01	103.82	10.93	0.00	92.89	-1.29	4700	--	420	34	510	310	3000	--	
08/20/01	103.82	12.74	0.00	91.08	-1.81	4500	--	320	ND<5.0	70	31	2400	--	
11/19/01	103.82	11.66	0.00	92.16	1.08	4700	--	360	ND<5.0	120	43	2800	--	
02/19/02	103.82	9.51	0.00	94.31	2.15	4700	--	220	ND<5.0	320	170	1600	--	
05/23/02	103.82	10.74	--	93.08	-1.23	3000	--	140	ND<5.0	37	9.7	1000	--	
08/21/02	103.82	12.82	--	91.00	-2.08	3100	--	260	ND<10	210	65	950	--	
11/19/02	103.82	11.15	--	92.67	1.67	4700	--	93	ND<50	89	41	2100	--	
02/12/03	103.82	9.11	--	94.71	2.04	5500	--	170	ND<50	280	160	2900	--	
05/14/03	103.82	9.03	--	94.79	0.08	3600	--	98	ND<5.0	76	26	610	--	
08/13/03	103.82	12.05	0.00	91.77	-3.02	--	3300	72	ND<10	17	ND<20	--	970	
11/13/03	103.82	12.50	0.00	91.32	-0.45	--	4200	140	ND<5.0	84	23	--	550	
02/12/04	103.82	10.26	0.00	93.56	2.24	--	4500	89	ND<5.0	200	70	--	580	
05/14/04	103.82	11.12	0.00	92.70	-0.86	--	5800	77	ND<5.0	90	24	--	700	
08/17/04	103.82	12.39	0.00	91.43	-1.27	--	3200	49	ND<1.0	17	4.8	--	220	
11/12/04	103.82	10.86	0.00	92.96	1.53	--	4000	46	ND<1.0	71	25	--	300	
02/07/05	103.82	9.99	0.00	93.83	0.87	--	4700	57	ND<0.50	63	31	--	250	
05/10/05	103.82	9.82	0.00	94.00	0.17	--	5200	44	ND<0.50	64	25	--	220	
08/22/05	103.82	10.94	0.00	92.88	-1.12	--	3500	36	ND<0.50	13	3.4	--	230	
11/09/05	103.82	10.60	0.00	93.22	0.34	--	3500	26	ND<2.5	26	8.7	--	140	
02/15/06	103.82	7.91	0.00	95.91	2.69	--	5400	59	ND<0.50	160	60	--	180	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-8 continued</b>														
01/29/96	103.21	5.59	--	97.62	--	ND	--	ND	ND	ND	ND	ND	--	--
12/18/96	103.21	8.05	--	95.16	-2.46	ND	--	ND	ND	ND	ND	ND	--	--
04/17/97	103.21	8.81	0.00	94.40	-0.76	ND	--	ND	ND	ND	ND	6	--	--
06/20/97	103.20	10.03	--	93.17	-1.23	ND	--	ND	ND	ND	ND	6	--	--
09/03/97	103.20	11.18	--	92.02	-1.15	ND	--	ND	ND	ND	ND	13	--	--
10/01/97	103.20	11.50	--	91.70	-0.32	--	--	--	--	--	--	--	--	--
12/02/97	103.20	8.11	--	95.09	3.39	ND	--	ND	ND	ND	ND	13	--	--
09/02/98	103.20	9.86	--	93.34	-1.75	ND	--	ND	ND	ND	ND	1220	--	--
02/04/99	103.20	6.82	--	96.38	3.04	ND	--	9.6	ND	ND	ND	1100	--	--
05/04/99	103.20	7.08	--	96.12	-0.26	ND	--	ND	ND	ND	ND	1000	--	--
08/05/99	103.20	10.64	--	92.56	-3.56	ND	--	ND	ND	ND	ND	790	--	--
11/18/99	103.20	11.13	--	92.07	-0.49	ND	--	ND	ND	ND	ND	870	--	--
02/18/00	103.20	7.60	--	95.60	3.53	ND	--	ND	ND	ND	ND	580	--	--
05/18/00	103.20	9.85	--	93.35	-2.25	ND	--	ND	ND	ND	ND	604	--	--
08/17/00	103.20	11.80	--	91.40	-1.95	ND	--	ND	ND	ND	ND	517	--	--
11/14/00	103.20	12.06	--	91.14	-0.26	ND	--	ND	ND	ND	ND	360	--	--
02/20/01	103.20	9.35	0.00	93.85	2.71	ND	--	ND	ND	ND	ND	264	--	--
05/04/01	103.20	10.80	--	92.40	-1.45	ND	--	ND	ND	ND	ND	380	--	--
08/20/01	103.20	12.46	0.00	90.74	-1.66	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	230	--	--
11/19/01	103.20	11.45	0.00	91.75	1.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	200	--	--
02/19/02	103.20	9.68	0.00	93.52	1.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--	--
05/23/02	103.20	10.85	--	92.35	-1.17	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--	--
08/21/02	103.20	12.38	--	90.82	-1.53	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--	--
11/19/02	103.20	11.66	--	91.54	0.72	110	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	--	--

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-8 continued</b>														
02/12/03	103.20	9.67	--	93.53	1.99	68	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	--	
05/14/03	103.20	9.41	--	93.79	0.26	52	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	68	--	
08/13/03	103.20	11.26	0.00	91.94	-1.85	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/13/03	103.20	12.38	0.00	90.82	-1.12	--	99	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
02/12/04	103.20	9.74	0.00	93.46	2.64	--	53	ND<0.50	1.0	ND<0.50	1.7	--	82	
05/14/04	103.20	11.12	0.00	92.08	-1.38	--	76	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	99	
08/17/04	103.20	12.21	0.00	90.99	-1.09	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
11/12/04	103.20	10.94	0.00	92.26	1.27	--	95	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
02/07/05	103.20	9.44	0.00	93.76	1.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	85	
05/10/05	103.20	--	--	--	--	--	--	--	--	--	--	--	--	Obstruction in well
08/22/05	103.20	11.50	0.00	91.70	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	60	
11/09/05	103.20	10.64	0.00	92.56	0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	51	
02/15/06	103.20	8.73	0.00	94.47	1.91	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	49	
<b>MW-9</b>														
06/20/97	102.64	9.80	--	92.84	--	5300	--	32	ND	370	210	380	--	
09/03/97	102.64	--	--	--	--	--	--	--	--	--	--	--	--	
10/01/97	102.64	11.30	--	91.34	--	5200	--	77	41	730	130	390	--	
12/02/97	102.64	8.04	--	94.60	3.26	1700	--	53	ND	110	42	450	--	
09/02/98	102.64	9.38	--	93.26	-1.34	1820	--	ND	ND	ND	ND	5900	--	
02/04/99	102.64	7.73	--	94.91	1.65	1800	--	20	ND	58	40	5700	--	
05/04/99	102.64	7.32	--	95.32	0.41	870	--	15	0.8	36	25	6200	--	
08/05/99	102.64	10.01	--	92.63	-2.69	ND	--	13	ND	27	25	5900	--	
11/18/99	102.64	10.72	--	91.92	-0.71	ND	--	61	ND	ND	18	6400	--	
02/18/00	102.64	6.54	--	96.10	4.18	820	--	29	1.1	39	29	9900	--	

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**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-9 continued</b>														
05/18/00	102.64	8.46	--	94.18	-1.92	541	--	ND	ND	11.8	ND	7200	--	
08/17/00	102.64	10.70	--	91.94	-2.24	511	--	27.9	ND	ND	ND	4790	--	
11/14/00	102.64	11.61	--	91.03	-0.91	ND	--	21	ND	ND	ND	6700	--	
02/20/01	102.64	8.30	0.00	94.34	3.31	1360	--	18.7	1.59	25.8	9.08	7150	--	
05/04/01	102.64	9.67	0.00	92.97	-1.37	770	--	35	5.5	27	42	3400	--	
08/20/01	102.64	11.61	0.00	91.03	-1.94	450	--	6.0	ND<2.5	ND<2.5	ND<2.5	3500	--	
11/19/01	102.64	10.68	0.00	91.96	0.93	1300	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5300	--	
02/19/02	102.64	8.81	0.00	93.83	1.87	890	--	ND<5.0	ND<5.0	7.1	ND<5.0	2100	--	
05/23/02	102.64	9.65	--	92.99	-0.84	820	--	32	ND<2.0	4.7	ND<2.0	1200	--	
08/21/02	102.64	11.64	--	91.00	-1.99	290	--	4.4	ND<0.50	ND<0.50	ND<0.50	1100	1900	
11/19/02	102.64	9.65	--	92.99	1.99	2600	--	17	ND<5.0	ND<5.0	ND<5.0	1100	--	
02/12/03	102.64	8.77	--	93.87	0.88	1700	--	73	0.91	140	65	1100	--	
05/14/03	102.64	8.68	--	93.96	0.09	2500	--	66	ND<5.0	51	17	480	--	
08/13/03	102.64	11.63	0.00	91.01	-2.95	--	1400	50	ND<10	11	ND<20	--	660	
11/13/03	102.64	10.71	0.00	91.93	0.92	--	1800	ND<2.5	ND<2.5	9.5	8.3	--	330	
02/12/04	102.64	8.87	0.00	93.77	1.84	--	1400	0.51	3.0	8.6	7.5	--	46	
05/14/04	102.64	9.15	0.00	93.49	-0.28	--	1100	ND<0.50	ND<0.50	5.8	2.3	--	26	
08/17/04	102.64	10.44	0.00	92.20	-1.29	--	960	ND<0.50	ND<0.50	1.1	ND<1.0	--	24	
11/12/04	102.64	9.46	0.00	93.18	0.98	--	1600	ND<0.50	ND<0.50	2.9	ND<1.0	--	14	
02/07/05	102.64	8.12	0.00	94.52	1.34	--	1200	ND<0.50	ND<0.50	2.6	ND<1.0	--	7.0	
05/10/05	102.64	7.67	0.00	94.97	0.45	--	1500	ND<0.50	ND<0.50	2.5	ND<1.0	--	6.8	
08/22/05	102.64	9.50	0.00	93.14	-1.83	--	850	ND<0.50	ND<0.50	0.63	ND<1.0	--	13	
11/09/05	102.64	8.75	0.00	93.89	0.75	--	890	ND<0.50	ND<0.50	1.4	ND<1.0	--	6.9	
02/15/06	102.64	7.42	0.00	95.22	1.33	--	860	ND<0.50	ND<0.50	2.0	ND<1.0	--	7.4	

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**October 1991 Through February 2006**  
**Circle K Store 05426**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>OW</b>														
12/30/95	--	--	--	--	--	210	--	8	10	ND	4	--	--	
01/29/96	103.83	6.17	--	97.66	--	--	--	--	--	--	--	--	--	
12/18/96	103.83	8.38	--	95.45	-2.21	--	--	--	--	--	--	--	--	
04/17/97	103.83	--	--	--	--	--	--	--	--	--	--	--	--	
06/20/97	103.78	--	--	--	--	--	--	--	--	--	--	--	--	
09/03/97	103.78	11.55	--	92.23	--	ND	--	3.4	ND	ND	ND	5000	--	
10/01/97	103.78	11.83	--	91.95	-0.28	--	--	--	--	--	--	--	--	
12/02/97	103.78	7.30	--	96.48	4.53	ND	--	ND	ND	ND	ND	570	--	
09/02/98	103.78	9.48	--	94.30	-2.18	ND	--	ND	39	ND	ND	2200	--	
02/04/99	103.78	7.18	--	96.60	2.30	ND	--	ND	ND	ND	ND	320	--	
05/04/99	103.78	7.56	--	96.22	-0.38	ND	--	ND	3.1	ND	ND	200	--	
08/05/99	103.78	10.02	--	93.76	-2.46	ND	--	ND	14	ND	ND	610	--	
11/18/99	103.78	10.80	--	92.98	-0.78	ND	--	2.8	4.7	ND	ND	340	--	
02/18/00	103.78	5.68	--	98.10	5.12	ND	--	ND	ND	ND	ND	ND	--	
05/18/00	103.78	9.84	--	93.94	-4.16	164	--	ND	69.2	ND	ND	ND	--	
08/17/00	103.78	10.14	--	93.64	-0.30	374	--	ND	73.0	ND	ND	274	--	
11/14/00	103.78	11.26	--	92.52	-1.12	87	--	2.8	2	ND	1.3	1600	--	
02/20/01	103.78	7.76	0.00	96.02	3.50	ND	--	ND	ND	ND	ND	ND	--	
05/04/01	103.78	9.79	0.00	93.99	-2.03	ND	--	ND	2.3	ND	ND	440	--	
08/20/01	103.78	10.03	0.00	93.75	-0.24	ND<50	--	ND<0.50	2.8	ND<0.50	ND<0.50	100	--	
11/19/01	103.78	9.55	0.00	94.23	0.48	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
02/19/02	103.78	7.43	0.00	96.35	2.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
05/23/02	103.78	8.74	--	95.04	-1.31	ND<50	--	1.2	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
08/21/02	103.78	12.82	--	90.96	-4.08	ND<50	--	ND<0.50	1.2	ND<0.50	ND<0.50	ND<2.5	--	

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**October 1991 Through February 2006**  
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>OW continued</b>														
11/19/02	103.78	11.39	--	92.39	1.43	ND<10000	--	ND<100	ND<100	ND<100	ND<100	ND<500	--	
02/12/03	103.78	9.48	--	94.30	1.91	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
05/14/03	103.78	9.34	--	94.44	0.14	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
08/13/03	103.78	10.43	0.00	93.35	-1.09	--	82	0.71	ND<0.50	ND<0.50	ND<1.0	--	8.6	
11/13/03	103.78	13.60	0.00	90.18	-3.17	--	3700	39	ND<25	ND<25	ND<50	--	5700	
02/12/04	103.78	10.25	0.00	93.53	3.35	--	1000	57	26	17	33	--	440	
05/14/04	103.78	10.90	0.00	92.88	-0.65	--	1100	48	3.4	8.9	34	--	180	
08/17/04	103.78	12.55	0.00	91.23	-1.65	--	2900	350	100	16	220	--	140	
11/12/04	103.78	9.65	0.00	94.13	2.90	--	290	0.86	ND<0.50	ND<0.50	2.3	--	ND<0.50	
02/07/05	103.78	9.90	0.00	93.88	-0.25	--	1100	93	4.2	5.3	21	--	120	
05/10/05	103.78	10.08	0.00	93.70	-0.18	--	960	63	0.92	1.6	10	--	76	
08/22/05	103.78	11.05	0.00	92.73	-0.97	--	340	6.4	2.8	ND<0.50	ND<1.0	--	16	
11/09/05	103.78	9.25	0.00	94.53	1.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/15/06	103.78	8.03	0.00	95.75	1.22	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>MW-2</b>														
12/30/95	300	--	--	--	--	--	--	--	700	ND	0.07	0.013	0.11	0.11
12/18/96	260	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/97	590	--	--	--	--	--	--	--	--	--	--	--	--	--
06/20/97	480	--	--	--	--	--	--	--	--	--	--	--	--	--
09/03/97	180	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	350	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	343	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	74	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	170	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	310	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	340	--	--	--	--	--	--	--	--	--	--	--	--	--
02/18/00	380	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	55.6	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/00	522	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	570	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/01	62.3	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	95	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	450	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/01	410	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	110	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	360	--	--	--	--	--	--	--	--	--	--	--	--	--
08/21/02	440	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	140	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	100	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/03	67	--	--	--	--	--	--	--	--	--	--	--	--	--
08/13/03	210	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>MW-2 continued</b>														
11/13/03	190	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/04	300	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/04	250	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/04	230	--	--	--	--	--	--	--	--	--	--	--	--	--
11/12/04	200	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/05	310	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/05	300	--	--	--	--	--	--	--	--	--	--	--	--	--
08/22/05	ND<200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/09/05	200	--	--	--	--	--	--	--	--	--	--	--	--	--
02/15/06	230	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-6</b>														
01/29/96	69	--	--	--	--	--	--	--	800	ND	0.05	0.006	0.07	0.06
12/18/96	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/97	85	--	--	--	--	--	--	--	--	--	--	--	--	--
06/20/97	100	--	--	--	--	--	--	--	--	--	--	--	--	--
09/03/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	68	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	126	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	70	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	98	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
02/18/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	101	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/00	106	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	170	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>MW-6 continued</b>														
02/20/01	123	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	62	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	76	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/01	87	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	210	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	220	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	130	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	110	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/03	94	--	--	--	--	--	--	--	--	--	--	--	--	--
08/13/03	230	--	--	--	--	--	--	--	--	--	--	--	--	--
11/13/03	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
11/12/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/05	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/05	58	--	--	--	--	--	--	--	--	--	--	--	--	--
08/22/05	ND<200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/09/05	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/15/06	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-7</b>														
01/29/96	3200	--	--	--	--	--	--	--	4900	ND	0.03	0.004	ND	0.04
12/18/96	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/97	3100	--	--	--	--	--	--	--	--	--	--	--	--	--
D 04/17/97	3100	--	--	--	--	--	--	--	--	--	--	--	--	--
06/20/97	1900	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>D MW-7 continued</b>														
D 06/20/97	2100	--	--	--	--	--	--	--	--	--	--	--	--	--
09/03/97	970	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	1200	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	1490	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	1100	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	1700	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	2200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	1700	--	--	--	--	--	--	--	--	--	--	--	--	--
02/18/00	1200	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	993	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
08/17/00	1080	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	2000	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/01	752	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	1100	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	480	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/01	420	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	700	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	530	--	--	--	--	--	--	--	--	--	--	--	--	--
08/21/02	1200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	390	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	640	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/03	590	--	--	--	--	--	--	--	--	--	--	--	--	--
08/13/03	580	--	--	--	--	--	--	--	--	--	--	--	--	--
11/13/03	450	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/04	520	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/04	570	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)	
<b>MW-7 continued</b>															
08/17/04	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/12/04	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/05	460	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/05	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/22/05	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/09/05	490	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/15/06	470	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-8</b>															
01/29/96	ND	--	--	--	--	--	--	--	600	ND	0.05	0.005	0.06	0.05	
12/18/96	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/17/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/20/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/03/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/18/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/01	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>MW-8 continued</b>														
11/19/01	ND<51	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	59	--	--	--	--	--	--	--	--	--	--	--	--	--
08/21/02	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/03	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
08/13/03	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
11/13/03	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
11/12/04	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/05	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
08/22/05	ND<200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/09/05	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
02/15/06	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-9</b>														
06/20/97	700	--	--	--	--	--	--	--	--	--	--	--	--	--
10/01/97	1100	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	190	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	241	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	150	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	180	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	480	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	360	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>MW-9 continued</b>														
02/18/00	250	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	193	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/00	225	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	230	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/01	195	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	67	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	140	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/01	110	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	120	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	150	--	--	--	--	--	--	--	--	--	--	--	--	--
08/21/02	860	ND<100	ND<2500	ND<10	ND<10	ND<10	ND<10	16	--	--	--	--	--	--
11/19/02	120	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	430	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/03	400	--	--	--	--	--	--	--	--	--	--	--	--	--
08/13/03	180	--	--	--	--	--	--	--	--	--	--	--	--	--
11/13/03	81	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/04	150	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/04	99	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/04	55	--	--	--	--	--	--	--	--	--	--	--	--	--
11/12/04	61	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/05	73	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/05	94	--	--	--	--	--	--	--	--	--	--	--	--	--
08/22/05	ND<200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/09/05	52	--	--	--	--	--	--	--	--	--	--	--	--	--
02/15/06	57	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>OW continued</b>														
12/30/95	ND	--	--	--	--	--	--	--	5200	ND	0.01	0.01	ND	31
09/03/97	400	--	--	--	--	--	--	--	--	--	--	--	--	--
12/02/97	500	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/98	646	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/99	250	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/99	1800	--	--	--	--	--	--	--	--	--	--	--	--	--
08/05/99	2000	--	--	--	--	--	--	--	--	--	--	--	--	--
11/18/99	2200	--	--	--	--	--	--	--	--	--	--	--	--	--
02/18/00	840	--	--	--	--	--	--	--	--	--	--	--	--	--
05/18/00	1500	--	--	--	--	--	--	--	--	--	--	--	--	--
08/17/00	3170	--	--	--	--	--	--	--	--	--	--	--	--	--
11/14/00	610	--	--	--	--	--	--	--	--	--	--	--	--	--
02/20/01	444	--	--	--	--	--	--	--	--	--	--	--	--	--
05/04/01	410	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/01	1600	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/01	910	--	--	--	--	--	--	--	--	--	--	--	--	--
02/19/02	490	--	--	--	--	--	--	--	--	--	--	--	--	--
05/23/02	120	--	--	--	--	--	--	--	--	--	--	--	--	--
08/21/02	1400	--	--	--	--	--	--	--	--	--	--	--	--	--
11/19/02	960	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/03	2100	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/03	220	--	--	--	--	--	--	--	--	--	--	--	--	--
08/13/03	60	--	--	--	--	--	--	--	--	--	--	--	--	--
11/13/03	170	--	--	--	--	--	--	--	--	--	--	--	--	--
02/12/04	250	--	--	--	--	--	--	--	--	--	--	--	--	--
05/14/04	150	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Circle K Store 05426**

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	TRPH (mg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (µg/l)	Nickel (mg/l)	Zinc (dissolved) (mg/l)
<b>OW continued</b>														
08/17/04	150	--	--	--	--	--	--	--	--	--	--	--	--	--
11/12/04	230	--	--	--	--	--	--	--	--	--	--	--	--	--
02/07/05	150	--	--	--	--	--	--	--	--	--	--	--	--	--
05/10/05	220	--	--	--	--	--	--	--	--	--	--	--	--	--
08/22/05	ND<200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/09/05	140	--	--	--	--	--	--	--	--	--	--	--	--	--
02/15/06	270	--	--	--	--	--	--	--	--	--	--	--	--	--

# COORDINATED EVENT DATA

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
AS-1	11/19/2001	--	102.43	12.41	90.02	30,000	--	9,600	ND<100	470	210	490	--	
	2/19/2002	--	102.43	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2002	--	102.43	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	8/21/2002	--	102.43	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	--	102.43	12.30	90.13	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	02/12/2003	--	102.43	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/14/2003	--	102.43	--	--	--	--	--	--	--	--	--	--	
	08/13/2003	--	102.43	12.20	90.23	--	--	--	--	--	--	--	--	Not Sampled
	11/13/2003	P	102.43	12.79	89.64	18,000	--	8,100	26	150	41	600	1.2	
	02/12/2004	--	102.43	11.82	90.61	--	--	--	--	--	--	--	--	h, Not Sampled
	05/14/2004	--	102.43	11.35	91.08	--	--	--	--	--	--	--	--	Not Sampled
	08/17/2004	--	102.43	12.27	90.16	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	P	102.43	11.92	90.51	17,000 J	--	6,100 J	<50	230	75	670 J	0.6	
	02/07/2005	--	102.43	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	102.43	11.18	91.25	--	--	--	--	--	--	--	--	Not Sampled
	08/22/2005	--	102.43	11.40	91.03	--	--	--	--	--	--	--	--	Not Sampled
	11/09/2005	P	102.43	11.18	91.25	14,000	--	4,800	<25	180	76	370	0.7	
	02/01/2006	--	102.43	9.12	93.31	--	--	--	--	--	--	--	--	Not Sampled
MW-1A	3/26/1996	--	102.47	6.33	96.14	96,000	--	12,000	ND<125	4,300	9,900	ND<625	--	
	6/26/1996	--	102.47	8.67	93.80	58,000	--	12,000	ND<100	5,900	3,600	ND<500	--	
	9/24/1996	--	102.47	10.14	92.33	54,000	--	11,000	ND<200	4,200	2,200	ND<1,000	--	
	12/15/1996	--	102.47	8.97	93.50	52,000	--	12,000	ND<250	5,100	3,300	ND<1,250	--	
	4/17/1997	NP	102.47	9.97	92.50	46,000	--	10,000	160	5,700	2,500	1,100	--	
	6/20/1997	NP	102.47	9.75	92.72	60,000	--	12,000	ND<100	6,600	2,600	980	--	
	9/4/1997	NP	102.47	10.78	91.69	57,000	--	13,000	ND<200	6,900	4,200	ND<1,200	--	
	12/2/1997	NP	102.47	9.61	92.86	61,000	--	12,000	ND<200	5,300	6,900	1,700	--	
	2/23/1998	NP	102.47	5.14	97.33	63,000	--	13,000	ND<200	5,800	4,000	1,400	--	
	5/29/1998	NP	102.47	8.18	94.29	63,000	--	10,000	ND<200	5,600	3,000	ND<1,200	--	
	9/2/1998	NP	102.47	9.71	92.76	52,000	--	9,900	ND<100	6,300	1,500	2,600	--	
	11/20/1998	NP	102.47	10.58	91.89	69,000	--	11,000	ND<100	5,700	3,400	ND<600	--	
	2/4/1999	NP	102.47	8.75	93.72	52,000	--	10,000	ND<100	5,200	2,200	710	--	
	5/4/1999	NP	102.47	8.12	94.35	42,000	--	11,000	66	6,500	1,200	1,300	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-1A	8/5/1999	NP	102.47	10.41	92.06	37,000	--	8,900	90	5,300	4,500	1,000	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	NP	102.47	11.12	91.35	28,000	--	11,000	44	7,000	700	420	--	
	2/18/2000	NP	102.47	8.70	93.77	44,000	--	10,000	45	4,300	600	1,000	--	
	6/20/2000	NP	102.47	10.49	91.98	43,000	--	11,000	70	5,500	920	620	--	
	8/17/2000	NP	102.47	12.40	90.07	46,000	--	10,000	38	5,700	1,500	630	--	
	11/14/2000	NP	102.47	11.93	90.54	37,000	--	9,530	ND<125	5,390	975	ND<1,250	--	
	2/20/2001	NP	102.47	9.59	92.88	40,500	--	10,300	ND<100	4,770	1,360	1,080	--	
	5/4/2001	NP	102.47	10.46	92.01	42,700	--	9,060	ND<100	4,750	1,640	ND<1,000	--	
	8/20/2001	NP	102.47	12.03	90.44	37,000a	--	8,800	ND<200	5,000	1,900	ND<100	--	
	11/19/2001	NP	102.47	11.55	90.92	46,000	--	7,200	64	4,500	1,300	1,100	--	
	2/19/2002	NP	102.47	9.95	92.52	30,000	--	8,400	ND<100	3,600	1,300	670	--	
	6/20/2002	--	102.47	11.07	91.40	44,000	--	10,000	130	6,100	2,100	680	--	
	8/21/2002	NP	102.47	11.90	90.57	24,000	--	7,900	ND<100	4,700	1,200	ND<500	--	
	11/19/2002	NP	102.47	11.06	91.41	29,000	--	7,500	350	3,100	1,400	2,900 (500) d	--	
	02/12/2003	NP	102.47	9.51	92.96	22,000	--	6,600	<50	1,800	340	950	--	
	05/14/2003	NP	102.47	9.70	92.77	19,000	--	6,400	65	2,000	430	670 J	1.3	
	08/13/2003	NP	102.47	11.42	91.05	39,000	--	8,100	<250	3,400	380	840	0.7	
	11/13/2003	NP	102.47	12.09	90.38	19,000	--	7,000	<100	1,200	110	600	0.8	
	02/12/2004	NP	102.47	9.95	92.52	18,000	--	5,200	<120	1,200	180	430	1.0	h
	05/14/2004	NP	102.47	10.61	91.86	26,000	--	6,500	<250	2,700	280	480	1.0	
	08/17/2004	NP	102.47	11.55	90.92	21,000	--	6,900	<120	2,800	210	430	1.2	
	11/12/2004	NP	102.47	10.85	91.62	1,300	--	6,100 J	<50	1,300	74	530 J	0.1	
	02/07/2005	NP	102.47	9.76	92.71	18,000 J	--	5,000	21	1,100	63	360	0.7	
	05/10/2005	NP	102.47	9.75	92.72	<25,000	--	5,800	<250	1,400	<250	370	0.9	
	08/22/2005	NP	102.47	10.57	91.90	30,000 J	--	6,700 J	<250 UJ	2,000 J	<250 UJ	370 J	0.8	
	11/09/2005	NP	102.47	10.54	91.93	22,000	--	6,600	62	1,500	110	370	0.4	
	02/01/2006	NP	102.47	8.22	94.25	15,000	--	5,300	<50	920 J	66 J	290	0.5	
MW-2	3/26/1996	--	101.43	7.31	94.12	390	--	45	ND<0.5	14	3.8	220	--	
	6/26/1996	--	101.43	8.73	92.70	200	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	290	--	
	9/24/1996	--	101.43	9.81	91.62	830	--	ND<5.0	ND<5.0	6.1	6.6	640	--	
	12/15/1996	--	101.43	8.68	92.75	580	--	ND<2.5	ND<2.5	7.5	6.5	820	--	
	4/17/1997	NP	101.43	9.18	92.25	290	--	12	0.79	0.8	0.72	260	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-2	6/20/1997	NP	101.43	9.61	91.82	360	--	ND<2	ND<2	ND<2	ND<2	360	--	
	9/4/1997	NP	101.43	10.63	90.80	510	--	ND<5	ND<5	8	ND<5	740 (770)d	--	
	12/2/1997	NP	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	2/23/1998	NP	101.43	5.19	96.24	420	--	24	1.6	18	17	800	--	
	5/29/1998	NP	101.43	8.03	93.40	ND<500	--	28	ND<5	7.3	5.8	1,000	--	
	9/2/1998	NP	101.43	9.80	91.63	ND<2,000	--	37	ND<20	ND<20	ND<20	1,900	--	
	11/20/1998	NP	101.43	10.10	91.33	ND<1,000	--	ND<10	ND<10	ND<10	ND<10	1,600	--	
	2/4/1999	--	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	5/4/1999	NP	101.43	8.15	93.28	140	--	0.7	ND<0.5	ND<0.5	ND<0.5	91	--	
	8/5/1999	NP	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	11/18/1999	NP	101.43	--	DRY	NS	--	NS	NS	NS	NS	NS	--	Not sampled, DRY
	2/18/2000	NP	101.43	7.82	93.61	660	--	4.2	1.2	9.7	9.5	330	--	
	6/20/2000	NP	101.43	9.93	91.50	460	--	25	0.6	4.5	10	590	--	
	8/17/2000	NP	101.43	11.80	89.63	850	--	9.4	ND<0.5	4.4	12	960	--	
	11/14/2000	NP	101.43	11.24	90.19	538	--	10.1	ND<1	1.22	3.13	1,090	--	
	2/20/2001	NP	101.43	8.90	92.53	431	--	3.92	ND<0.5	5.74	6.22	990	--	
	5/4/2001	NP	101.43	9.90	91.53	734	--	9.77	ND<2.5	13.1	8.12	1,220	--	
	8/20/2001	NP	101.43	11.27	90.16	540a	--	1.9	1.9	1	ND<1.0	690	--	
	11/19/2001	NP	101.43	10.96	90.47	3,000	--	8	ND<5.0	22	9	1,500	--	
	2/19/2002	NP	101.43	9.11	92.32	840	--	25	1.5	10	8.1	610	--	
	6/20/2002	--	101.43	10.10	91.33	1,300	--	51	1.1	6.5	3.1	610	--	
	8/21/2002	NP	101.43	11.06	90.37	2,300	--	51	ND<5	ND<5	6	670	--	
	11/19/2002	NP	101.43	10.59	90.84	8,300	--	1,500	38	640	180	840	--	
	02/12/2003	NP	101.43	8.96	92.47	<5,000	--	<50	<50	<50	<50	490	--	
	05/14/2003	NP	101.43	9.14	92.29	930	--	12 J	<1.0	5.7	2.6	600 J	0.9	
	08/13/2003	NP	101.43	10.35	91.08	3,100	--	30	<25	<25	<25	700	0.7	
	11/13/2003	NP	101.43	12.47	88.96	4,800	--	56	<25	31	<25	540	1.5	
	02/12/2004	NP	101.43	9.22	92.21	1,500	--	<50	<50	7.0	<5.0	220	1.0	h
	05/14/2004	NP	101.43	9.93	91.50	1,600	--	<50	<50	<50	<50	220	1.0	
	08/17/2004	NP	101.43	10.60	90.83	2,700	--	<25	<25	<25	<25	260	1.8	
	11/12/2004	NP	101.43	10.23	91.20	3,800	--	12	<12	18	<12	180	0.2	
	02/07/2005	NP	101.43	9.25	92.18	1,800 J	--	7.5	<5.0	11	6.9	78	0.6	
	05/10/2005	NP	101.43	9.11	92.32	760	--	14	<2.5	12	6.8	120	0.7	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-2	08/22/2005	NP	101.43	9.85	91.58	3,000 J	--	22 J	<2.5 UJ	31 J	19 J	110 J	1.3	
	11/09/2005	NP	101.43	9.86	91.57	2,900	--	24	<2.5	12	7.4	78	0.9	
	02/01/2006	NP	101.43	8.04	93.39	<100	--	<1.0	<1.0	<1.0 UJ	<1.0 UJ	12	0.1	
MW-3	3/26/1996	--	102.72	6.51	96.21	ND<250	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	920	--	
	6/26/1996	--	102.72	8.58	94.14	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	84	--	
	9/24/1996	--	102.72	10.61	92.11	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.4	--	
	12/15/1996	--	102.72	8.58	94.14	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	4/17/1997	NP	102.72	9.02	93.70	ND<50	--	ND<0.5	3.4	ND<0.5	ND<0.5	ND<2.5	--	
	6/20/1997	NP	102.72	10.12	92.60	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/4/1997	NP	102.72	11.43	91.29	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--	
	12/2/1997	NP	102.72	9.21	93.51	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	2/23/1998	NP	102.72	4.40	98.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	
	5/29/1998	NP	102.72	7.55	95.17	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/2/1998	NP	102.72	9.90	92.82	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	11/20/1998	NP	102.72	10.45	92.27	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	2/4/1999	NP	102.72	7.64	95.08	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	5/4/1999	NP	102.72	7.75	94.97	ND<50	--	ND<0.5	2.8	ND<0.5	ND<0.5	ND<3	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	8/5/1999	NP	102.72	11.17	91.55	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.5	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	NP	102.72	11.38	91.34	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	
	2/18/2000	NP	102.72	8.70	94.02	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	
	6/20/2000	NP	102.72	11.00	91.72	ND<50	--	ND<0.5	1.2	ND<0.5	ND<1	ND<3	--	
	8/17/2000	NP	102.72	12.60	90.12	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	6	--	
	11/14/2000	NP	102.72	12.11	90.61	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	
	2/20/2001	NP	102.72	9.85	92.87	ND<50	--	ND<0.5	1.02	ND<0.5	ND<0.5	ND<2.5	--	
	5/4/2001	NP	102.72	10.76	91.96	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	
	8/20/2001	NP	102.72	12.25	90.47	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	--	
	11/19/2001	NP	102.72	11.81	90.91	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	--	
	2/19/2002	NP	102.72	10.24	92.48	ND<50	--	ND<0.5	0.74	ND<0.5	1.1	ND<0.5	--	
	6/20/2002	--	102.72	11.40	91.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	
	8/21/2002	NP	102.72	12.06	90.66	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	76	--	
	11/19/2002	NP	102.72	11.56	91.16	ND<50	--	5.5	ND<0.5	2.4	ND<0.5	32	--	

Table 1

Groundwater Elevation and Analytical Data

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-3	02/12/2003	NP	102.72	10.07	92.65	<50	--	<0.50	<0.50	<0.50	<0.50	0.66	--	
	05/14/2003	NP	102.72	9.88	92.84	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	
	08/13/2003	NP	102.72	11.75	90.97	66	--	<2.5	<2.5	<2.5	<2.5	83	1.2	
	11/13/2003	NP	102.72	12.55	90.17	100 R	--	<5.0	<5.0	<5.0	<5.0	230	1.6	
	02/12/2004	NP	102.72	10.23	92.49	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	h
	05/14/2004	NP	102.72	11.02	91.70	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	
	08/17/2004	NP	102.72	11.85	90.87	<50	--	<0.50	<0.50	<0.50	<0.50	30	2.1	
	11/12/2004	NP	102.72	11.13	91.59	<50 UJ	--	<0.50	3.0	<0.50	<0.50	120 J	2.5	
	02/07/2005	NP	102.72	9.93	92.79	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	
	05/10/2005	NP	102.72	9.65	93.07	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	
	08/22/2005	NP	102.72	11.00	91.72	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	23 J	0.9	
	11/09/2005	NP	102.72	10.81	91.91	<50	--	<0.50	<0.50	<0.50	<0.50	46	0.4	
	02/01/2006	NP	102.72	8.32	94.40	<50	--	<0.50	<0.50	<0.50 UJ	<0.50 UJ	<0.50	0.5	
MW-4	3/26/1996	--	101.59	8.27	93.32	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/26/1996	--	101.59	9.68	91.91	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	9/24/1996	--	101.59	11.22	90.37	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/15/1996	--	101.59	9.92	91.67	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	4/17/1997	--	101.59	9.36	92.23	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/1997	--	101.59	9.75	91.84	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/4/1997	--	101.59	10.69	90.90	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/2/1997	--	101.59	9.17	92.42	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/23/1998	--	101.59	5.88	95.71	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	32	--	
	5/29/1998	--	101.59	8.35	93.24	ND<500	--	ND<5	ND<5	ND<5	ND<5	310	--	
	9/2/1998	--	101.59	9.47	92.12	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/20/1998	--	101.59	10.29	91.30	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/4/1999	--	101.59	8.40	93.19	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/1999	--	101.59	8.63	92.96	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2,600	--	Not sampled
	8/5/1999	--	101.59	11.60	89.99	4,400	--	1,100	ND<25	37	35	110	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	--	101.59	10.52	91.07	ND<50	--	0.6	ND<0.5	ND<0.5	ND<1	140	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	3/21/2000	--	101.59	8.08f	--	71	--	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	
	6/20/2000	--	101.59	9.87	91.72	ND<50	--	ND<0.5	0.6	ND<0.5	ND<1	61(71)d	--	

Table 1

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8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-4	8/17/2000	g	101.59	NM	NM	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/14/2000	NP	101.59	11.37	90.22	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15.8	--	
	2/20/2001	NP	101.59	8.76	92.83	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	194	--	
	5/4/2001	NP	101.59	9.86	91.73	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	
	8/20/2001	NP	101.59	11.30	90.29	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	--	
	11/19/2001	NP	101.59	11.00	90.59	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	88	--	
	2/19/2002	NP	101.59	9.29	92.30	110	--	ND<0.5	ND<0.5	ND<0.5	0.51	230	--	
	6/20/2002	--	101.59	10.52	91.07	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.50	--	
	8/21/2002	NP	101.59	11.23	90.36	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	--	
	11/19/2002	NP	101.59	10.39	91.20	ND<50	--	0.52	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	02/12/2003	NP	101.59	8.34	93.25	240	--	<0.50	<0.50	<0.50	<0.50	220	--	
	05/14/2003	NP	101.59	9.27	92.32	200	--	<0.50	<0.50	<0.50	<0.50	700 J	0.9	
	08/13/2003	NP	101.59	10.80	90.79	<50	--	<0.50	<0.50	<0.50	<0.50	1.2	2.1	
	11/13/2003	NP	101.59	11.37	90.22	<50	--	<0.50	<0.50	<0.50	<0.50	12	3.1	
	02/12/2004	NP	101.59	9.30	92.29	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	h
	05/14/2004	NP	101.59	9.93	91.66	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	
	08/17/2004	NP	101.59	10.90	90.69	<50	--	<0.50	<0.50	<0.50	<0.50	11	1.4	
	11/12/2004	NP	101.59	9.85	91.74	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	0.81 J	2.6	
	02/07/2005	NP	101.59	9.28	92.31	<50	--	<0.50	<0.50	<0.50	<0.50	3.1	0.8	
	05/10/2005	NP	101.59	8.97	92.62	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	
	08/22/2005	NP	101.59	9.78	91.81	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	2.0	
	11/09/2005	NP	101.59	9.75	91.84	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	
	02/01/2006	NP	101.59	8.12	93.47	<50	--	<0.50	<0.50	<0.50 UJ	<0.50 UJ	<0.50	0.9	
MW-5	3/26/1996	--	101.8	8.24	93.56	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/26/1996	--	101.8	9.62	92.18	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	9/24/1996	--	101.8	11.16	90.64	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/15/1996	--	101.8	9.86	91.94	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	4/17/1997	--	101.8	9.27	92.53	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/1997	--	101.8	9.70	92.10	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26	--	
	9/4/1997	--	101.8	10.38	91.42	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/2/1997	--	101.8	NM	NM	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/23/1998	--	101.8	5.66	96.14	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/29/1998	--	101.8	8.12	93.68	ND<500	--	ND<5	ND<5	ND<5	ND<5	430	--	

Table 1

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-5	9/2/1998	--	101.8	9.35	92.45	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/20/1998	--	101.8	10.04	91.76	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/4/1999	--	101.8	8.28	93.52	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/1999	--	101.8	8.46	93.34	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4,800	--	Not sampled
	8/5/1999	--	101.8	10.08	91.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/18/1999	--	101.8	10.06	91.74	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/18/2000	--	101.8	7.90	93.90	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2000	--	101.8	9.73	92.07	ND<50	--	ND<0.5	1	ND<0.5	ND<1	860	--	Not sampled
	8/17/2000	--	101.8	11.60	90.20	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/14/2000	--	101.8	11.08	90.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/20/2001	--	101.8	8.52	93.28	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/2001	NP	101.8	9.76	92.04	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1,850	--	Not sampled
	8/20/2001	--	101.8	11.08	90.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2001	--	101.8	10.51	91.29	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/19/2002	--	101.8	9.08	92.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2002	--	101.8	10.15	91.65	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	--	Not sampled
	8/21/2002	NP	101.8	10.93	90.87	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	NP	101.8	--	--	--	--	--	--	--	--	--	--	Well inaccessible
	02/12/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	05/14/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	08/13/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	11/13/2003	--	101.80	--	--	--	--	--	--	--	--	--	--	Well Inaccessible
	02/12/2004	--	101.80	9.18	92.62	--	--	--	--	--	--	--	--	h
	05/14/2004	NP	101.80	9.73	92.07	100	--	<10	<10	<10	<10	370	1.8	Not Sampled
	08/17/2004	--	101.80	11.12	90.68	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	101.80	9.50	92.30	--	--	--	--	--	--	--	--	Not Sampled
	02/07/2005	--	101.80	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	NP	101.80	8.78	93.02	<500	--	<5.0	<5.0	<5.0	<5.0	320	0.4	Not sampled
	08/22/2005	--	101.80	9.55	92.25	--	--	--	--	--	--	--	--	Not scheduled to be sampled
	11/09/2005	--	101.80	9.55	92.25	--	--	--	--	--	--	--	--	Not sampled
	02/01/2006	--	101.80	8.18	93.62	--	--	--	--	--	--	--	--	Not sampled
MW-6	3/26/1996	--	103.53	8.16	95.37	3,900	--	750	ND<5.0	50	23	170	--	Not sampled

Table 1

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-6	6/26/1996	--	103.53	9.89	93.64	5,000	--	1,500	ND<20	39	ND<20	260	--	
	9/24/1996	--	103.53	11.43	92.10	1,900	--	170	3.7	28	12	120	--	
	12/15/1996	--	103.53	9.66	93.87	970	--	180	ND<2.5	12	ND<2.5	43	--	
	4/17/1997	NP	103.53	10.12	93.41	2,500	--	420	10	71	35	130	--	
	6/20/1997	NP	103.53	11.09	92.44	2,400	--	330	ND<5	26	13	66	--	
	9/4/1997	NP	103.53	12.00	91.53	2,100	--	320	ND<5	7	7	94	--	
	12/2/1997	NP	103.53	10.05	93.48	1,800	--	360	6	19	7	63	--	
	2/23/1998	NP	103.53	6.21	97.32	400	--	31	2.1	2	2.7	ND<0.5	--	
	5/29/1998	NP	103.53	8.95	94.58	940	--	61	2	5.7	3.9	59	--	
	9/2/1998	NP	103.53	10.85	92.68	1,500	--	170	5	3	10	96	--	
	11/20/1998	NP	103.53	11.55	91.98	1,900	--	270	3	ND<2.5	4	88	--	
	2/4/1999	NP	103.53	9.13	94.40	1,500	--	190	3.4	14	10	110	--	
	5/4/1999	NP	103.53	9.29	94.24	2,800	--	400	ND<5	57	28	140	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	8/5/1999	NP	103.53	10.10	93.43	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	420	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	NP	103.53	11.80	91.73	2,600	--	400	7.2	4.9	11	23	--	
	2/18/2000	NP	103.53	8.44	95.09	530	--	80	0.7	2.2	2	ND<3	--	
	6/20/2000	NP	103.53	11.41	92.12	490	--	70	1.2	2.4	2.4	840	--	
	8/17/2000	NP	103.53	13.38	90.15	2,200	--	440	2.9	6.3	7.8	440	--	
	11/14/2000	NP	103.53	12.85	90.68	2,950	--	746	ND<10	ND<10	ND<10	1,970(1,880)d	--	
	2/20/2001	NP	103.53	10.22	93.31	602	--	60	0.522	1.11	0.892	3,530(3,550)d	--	
	5/4/2001	NP	103.53	11.49	92.04	361	--	11.6	ND<0.5	0.776	ND<0.5	9,220(6,690)d	--	
	8/20/2001	NP	103.53	12.97	90.56	1,400b	--	50	ND<5.0	ND<5.0	ND<5.0	9,100c(8.8)d	--	
	11/19/2001	NP	103.53	12.21	91.32	590	--	24	0.81	2.2	1.5	500	--	
	2/19/2002	NP	103.53	10.74	92.79	140	--	ND<0.50	0.56	0.58	0.77	170	--	
	6/20/2002	--	103.53	12.05	91.48	680	--	170	1.2	14	2.3	520	--	
	8/21/2002	NP	103.53	12.78	90.75	88	--	1.9	ND<0.5	1.4	ND<0.5	ND<2.5	--	
	11/19/2002	NP	103.53	11.46	92.07	ND<1,000	--	98	ND<10	28	11	ND<50	--	
	02/12/2003	NP	103.53	9.55	93.98	<500	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	
	05/14/2003	NP	103.53	10.35	93.18	200	--	2.6 J	<0.50	<0.50	0.51	44 J	1.2	
	08/13/2003	NP	103.53	12.37	91.16	240	--	<2.5	<2.5	<2.5	<2.5	21	1.0	
	11/13/2003	NP	103.53	13.08	90.45	180	--	16	<2.5	<2.5	<2.5	12	1.1	

Table 1

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-6	02/12/2004	NP	103.53	10.72	92.81	190	--	1.8	<0.50	0.94	<0.50	3.9	1.2	h
	05/14/2004	NP	103.53	11.52	92.01	150	--	<2.5	<2.5	<2.5	<2.5	9.8	1.1	
	08/17/2004	NP	103.53	12.12	91.41	110	--	5.5	<0.50	1.6	1.1	6.4	1.3	
	11/12/2004	NP	103.53	11.39	92.14	380 J	--	8.1	<2.5	<2.5	<2.5	31 J	0.4	
	02/07/2005	NP	103.53	10.52	93.01	340 J	--	5.0	<0.50	7.0	1.4	4.1	0.6	
	05/10/2005	NP	103.53	10.63	92.90	72	--	0.83	<0.50	<0.50	<0.50	2.4	1.4	
	08/22/2005	NP	103.53	11.43	92.10	780 J	--	13 J	0.72 J	1.4 J	2.7 J	11 J	0.8	
	11/09/2005	NP	103.53	11.13	92.40	900	--	7.6	0.91	1.4	2.5	17	0.2	
	02/01/2006	NP	103.53	8.65	94.88	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	0.2	
MW-7	3/26/1996	--	103.46	7.88	95.58	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/26/1996	--	103.46	9.80	93.66	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	9/24/1996	--	103.46	11.71	91.75	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/15/1996	--	103.46	9.98	93.48	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	4/17/1997	--	103.46	10.10	93.36	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/1997	--	103.46	11.15	92.31	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--	
	9/4/1997	--	103.46	12.21	91.25	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/2/1997	--	103.46	10.76	92.70	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/23/1998	--	103.46	5.63	97.83	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/29/1998	--	103.46	8.90	94.56	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--	
	9/2/1998	--	103.46	11.00	92.46	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/20/1998	--	103.46	11.63	91.83	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/4/1999	--	103.46	9.05	94.41	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/1999	--	103.46	9.05	94.41	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	8/5/1999	--	103.46	12.01	91.45	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/18/1999	--	103.46	12.52	90.94	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/18/2000	--	103.46	9.86	93.60	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2000	--	103.46	12.05	91.41	ND<50	--	ND<0.5	1	ND<0.5	ND<1	120	--	
	8/17/2000	--	103.46	13.78	89.68	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/14/2000	--	103.46	13.10	90.36	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/20/2001	--	103.46	11.12	92.34	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/2001	NP	103.46	12.00	91.46	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	189	--	
	8/20/2001	--	103.46	13.20	90.26	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2001	--	103.46	12.91	90.55	NS	--	NS	NS	NS	NS	NS	--	Not sampled

Table 1

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-7	2/19/2002	--	103.46	11.43	92.03	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/2002	--	103.46	12.43	91.03	81	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	480	--	
	8/21/2002	NP	103.46	13.07	90.39	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	NP	103.46	12.81	90.65	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	02/12/2003	NP	103.46	11.23	92.23	--	--	--	--	--	--	--	--	
	05/14/2003	NP	103.46	11.11	92.35	450	--	<1.0	<1.0	<1.0	<1.0	1,100	1.0	
	08/13/2003	--	103.46	12.71	90.75	--	--	--	--	--	--	--	--	
	02/12/2004	--	103.46	11.39	92.07	--	--	--	--	--	--	--	--	h
	05/14/2004	NP	103.46	12.14	91.32	170	--	<12	<12	<12	<12	530	1.2	
	08/17/2004	--	103.46	12.96	90.50	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	103.46	12.47	90.99	--	--	--	--	--	--	--	--	Not Sampled
	02/07/2005	--	103.46	--	--	--	--	--	--	--	--	--	--	Not sampled
	05/10/2005	NP	103.46	11.11	92.35	120	--	<1.0	<1.0	<1.0	<1.0	140	0.8	
	08/22/2005	--	103.46	12.22	91.24	--	--	--	--	--	--	--	--	Not Sampled
	11/09/2005	--	103.46	12.00	91.46	--	--	--	--	--	--	--	--	Not scheduled to be sampled
	02/01/2006	--	103.46	9.87	93.59	--	--	--	--	--	--	--	--	Not sampled
MW-8	3/26/1996	--	100.70	6.69	94.01	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	6/26/1996	--	100.70	8.16	92.54	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	9/24/1996	--	100.70	9.50	91.20	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	12/15/1996	--	100.70	8.44	92.26	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	47	--	
	4/17/1997	--	100.70	8.21	92.49	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	6/20/1997	--	100.70	9.02	91.68	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/4/1997	--	100.70	9.96	90.74	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	--	
	12/2/1997	--	100.70	8.85	91.85	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	87	--	
	2/23/1998	--	100.70	5.64	95.06	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	--	
	5/29/1998	--	100.70	7.51	93.19	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	9/2/1998	--	100.70	8.81	91.89	120	--	1.1	ND<0.5	3.3	ND<0.5	3	--	
	12/1/1998	--	100.70	9.40e	91.30	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	21	--	
	2/4/1999	--	100.70	7.90	92.80	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	
	5/4/1999	--	100.70	7.62	93.08	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8	--	
	8/5/1999	--	100.70	9.60	91.10	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	

Table 1

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-8	11/18/1999	--	100.70	10.08	90.62	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	120	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	2/18/2000	--	100.70	8.04	92.66	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	310	--	
	6/20/2000	--	100.70	9.35	91.35	ND<50	--	ND<0.5	0.7	ND<0.5	ND<1	560	--	
	8/17/2000	--	100.70	11.18	89.52	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	320	--	
	11/14/2000	NP	100.70	10.68	90.02	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	273	--	
	2/20/2001	NP	100.70	8.41	92.29	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	122	--	
	5/4/2001	NP	100.70	9.32	91.38	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	199	--	
	8/20/2001	NP	100.70	10.66	90.04	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	140	--	
	11/19/2001	NP	100.70	10.46	90.24	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	360	--	
	2/19/2002	NP	100.70	8.86	91.84	70	--	ND<0.5	1.1	ND<0.5	1.5	98	--	
	6/20/2002	--	100.70	9.90	90.80	140	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1,700	--	
	8/21/2002	NP	100.70	10.50	90.20	1,200	--	ND<10	ND<10	ND<10	13	1,300	--	
	11/19/2002	NP	100.70	10.19	90.51	1,100	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1,700	--	
	02/12/2003	NP	100.70	8.71	91.99	<5,000	--	<50	<50	<50	<50	2,300	--	
	05/14/2003	NP	100.70	8.61	92.09	1,800	--	<5.0	<5.0	<5.0	<5.0	4,900 J	0.8	
	08/13/2003	NP	100.70	10.15	90.55	1,600	--	<50	63	<50	130	4,700	1.5	
	11/13/2003	NP	100.70	11.32	89.38	1,500 R	--	<50	<50	<50	<50	3,900	1.2	
	02/12/2004	NP	100.70	8.76	91.94	450	--	<12	<12	<12	<12	800	0.9	h
	05/14/2004	NP	100.70	9.45	91.25	120	--	<12	<12	<12	<12	250	1.1	
	08/17/2004	NP	100.70	10.38	90.32	51	--	<0.50	<0.50	<0.50	<0.50	33	2.1	
	11/12/2004	NP	100.70	9.79	90.91	<50 UJ	--	<0.50	<0.50	<0.50	<0.50	<50 UJ	0.6	
	02/07/2005	NP	100.70	8.75	91.95	<50	--	<0.50	<0.50	<0.50	<0.50	9.7	1.1	
	05/10/2005	NP	100.70	8.71	91.99	<50	--	<0.50	<0.50	<0.50	<0.50	10	1.3	
	08/22/2005	NP	100.70	9.36	91.34	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	2.4 J	1.4	
	11/09/2005	NP	100.70	9.65	91.05	<50	--	<0.50	<0.50	<0.50	<0.50	3.5	0.9	
	02/01/2006	NP	100.70	8.47	92.23	<50	--	<0.50	<0.50	<0.50	<0.50	0.79	0.8	
MW-9	3/26/1996	--	101.6	8.42	93.18	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/26/1996	--	101.6	9.49	92.11	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	9/24/1996	--	101.6	10.74	90.86	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/15/1996	--	101.6	9.44	92.16	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	4/17/1997	--	101.6	9.61	91.99	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	6/20/1997	--	101.6	10.22	91.38	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	58	--	

Table 1

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-9	9/4/1997	--	101.6	11.19	90.41	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	12/2/1997	--	101.6	9.95	91.65	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/23/1998	--	101.6	6.50	95.10	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/29/1998	--	101.6	8.89	92.71	ND<500	--	ND<5	ND<5	ND<5	ND<5	150	--	
	9/2/1998	--	101.6	9.98	91.62	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/20/1998	--	101.6	10.84	90.76	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	2/4/1999	--	101.6	8.88	92.72	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	5/4/1999	--	101.6	9.01	92.59	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	--	
	8/5/1999	--	101.6	10.75	90.85	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	280	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	--	101.6	11.30	90.30	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	440	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	3/21/2000	--	101.6	8.50f	93.10	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	
	6/20/2000	--	101.6	10.51	91.09	ND<50	--	ND<0.5	0.9	ND<0.5	ND<1	370(390)d	--	
	8/17/2000	--	101.6	12.35	89.25	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	320(360)d	--	
	11/14/2000	NP	101.6	11.79	89.81	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	297	--	
	2/20/2001	NP	101.6	9.42	92.18	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	137	--	
	5/4/2001	NP	101.6	10.37	91.23	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	126	--	
	8/20/2001	NP	101.6	11.71	89.89	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	150	--	
	11/19/2001	NP	101.6	11.60	90.00	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	150	--	
	2/19/2002	NP	101.6	9.95	91.65	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	31	--	
	6/20/2002	--	101.6	11.00	90.60	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	70	--	
	8/21/2002	NP	101.6	11.55	90.05	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	63	--	
	11/19/2002	NP	101.6	11.45	90.15	69	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	100	--	
	02/12/2003	NP	101.60	9.93	91.67	<50	--	<0.50	<0.50	<0.50	<0.50	3.4	--	
	05/14/2003	NP	101.60	9.73	91.87	<50	--	<0.50	<0.50	<0.50	<0.50	4.4 J	1.3	
	08/13/2003	NP	101.60	11.25	90.35	<50	--	<1.0	<1.0	<1.0	<1.0	42	2.3	
	11/13/2003	NP	101.60	12.48	89.12	<50	--	<0.50	<0.50	<0.50	<0.50	49	1.7	h
	02/12/2004	NP	101.60	9.83	91.77	<50	--	<0.50	<0.50	<0.50	<0.50	8.0	1.8	
	05/14/2004	NP	101.60	10.58	91.02	<50	--	<0.50	<0.50	<0.50	<0.50	21	1.2	
	08/17/2004	NP	101.60	11.52	90.08	<50	--	<0.50	<0.50	<0.50	<0.50	17	2.2	
	11/12/2004	NP	101.60	11.08	90.52	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	39 J	0.7	
	02/07/2005	NP	101.60	9.85	91.75	<50	--	<0.50	<0.50	<0.50	<0.50	2.5	0.8	

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Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-9	05/10/2005	NP	101.60	9.82	91.78	<50	--	<0.50	<0.50	<0.50	<0.50	1.3	0.9	
	08/22/2005	NP	101.60	10.42	91.18	<50	--	<0.50	<0.50	<0.50	<0.50	1.4	1.8	
	08/25/2005	P	101.60	20.98	80.62	--	--	--	--	--	--	--	1.5	
	11/09/2005	NP	101.60	10.91	90.69	<50	--	<0.50	<0.50	<0.50	<0.50	12	0.6	
	<b>02/01/2006</b>	<b>NP</b>	<b>101.60</b>	<b>8.80</b>	<b>92.80</b>	<b>&lt;50</b>	<b>--</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>0.69</b>	<b>0.8</b>	
MW-10	3/26/1996	--	102.43	9.11	93.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	--	
	6/26/1996	--	102.43	11.09	91.34	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	9/24/1996	--	102.43	13.03	89.40	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	12/15/1996	--	102.43	12.64	89.79	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	--	
	4/17/1997	--	102.43	10.17	92.26	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	--	
	6/20/1997	--	102.43	11.85	90.58	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3	--	
	9/4/1997	--	102.43	13.65	88.78	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5	--	
	12/2/1997	--	102.43	12.24	90.19	ND<50	--	ND<0.5	ND<0.5	ND<0.5	1.1	5	--	
	2/23/1998	--	102.43	8.20	94.23	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9	--	
	5/29/1998	--	102.43	9.06	93.37	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	--	
	9/2/1998	--	102.43	11.15	91.28	ND<50	--	0.7	ND<0.5	0.6	ND<0.5	ND<3	--	
	11/20/1998	--	102.43	12.04	90.39	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	--	
	2/4/1999	--	102.43	10.63	91.80	ND<50	--	0.5	ND<0.5	ND<0.5	0.5	7	--	
	5/4/1999	--	102.43	9.75	92.68	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	--	
	8/5/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	8/5/1999	--	102.43	11.89	90.54	ND<50	--	3.2	ND<0.5	ND<0.5	1.9	12	--	
	11/18/1999	--	102.43	--	--	--	--	--	--	--	--	--	--	
	11/18/1999	--	102.43	13.03	89.40	ND<50	--	1.8	0.5	ND<0.5	ND<1	12	--	
	2/18/2000	--	102.43	10.28	92.15	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	29	--	
	6/20/2000	--	102.43	12.70	89.73	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	37	--	
	8/17/2000	--	102.43	14.63	87.80	ND<50	--	0.7	ND<0.5	0.6	3.3	21	--	
	11/14/2000	--	102.43	14.25	88.18	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	42.8	--	
	2/20/2001	--	102.43	11.87	90.56	ND<50	--	ND<0.5	ND<0.5	ND<0.5	1.56	30	--	
	5/4/2001	--	102.43	12.55	89.88	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16.6	--	
	8/20/2001	--	102.43	14.24	88.19	130	--	11	6.6	1.3	12	31	--	
	11/19/2001	--	102.43	14.10	88.33	ND<50	--	0.57	0.89	ND<0.50	1.3	36	--	
	2/19/2002	--	102.43	11.93	90.50	ND<50	--	ND<0.50	0.91	ND<0.50	1.7	22	--	
	6/20/2002	--	102.43	13.13	89.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments
MW-10	8/21/2002	P	102.43	13.88	88.55	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	--	
	11/19/2002	P	102.43	14.04	88.39	58	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	79	--	
	02/12/2003	P	102.43	11.79	90.64	130	--	<0.50	<0.50	<0.50	<0.50	88	--	
	05/14/2003	P	102.43	11.86	90.57	<50	--	<0.50	<0.50	<0.50	<0.50	78 J	3.0	
	08/13/2003	P	102.43	13.52	88.91	55	--	<1.2	<1.2	<1.2	<1.2	82	4.7	
	11/13/2003	P	102.43	14.43	88.00	<50	--	<0.50	<0.50	<0.50	<0.50	4.6	1.6	
	02/12/2004	P	102.43	12.49	89.94	51	--	<0.50	<0.50	<0.50	<0.50	77	4.6	h
	05/14/2004	P	102.43	12.32	90.11	<50	--	<2.5	<2.5	<2.5	<2.5	64	3.8	
	08/17/2004	P	102.43	13.46	88.97	<50	--	<0.50	<0.50	<0.50	0.57	20	2.5	
	11/12/2004	P	102.43	13.33	89.10	<50 UJ	--	<0.50	<0.50	<0.50	<0.50	87 J	3.4	
	02/07/2005	P	102.43	12.75	89.68	<50	--	<2.5	<2.5	<2.5	<2.5	44	3.1	
	05/10/2005	P	102.43	12.00	90.43	<50	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50	2.6	
	08/22/2005	P	102.43	12.37	90.06	<50 UJ	--	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	2.9 J	0.9	
	11/09/2005	P	102.43	12.52	89.91	70	--	<0.50	<0.50	<0.50	<0.50	52	0.9	
	02/01/2006	NP	102.43	8.12	94.31	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	
SV-1	11/19/2001	--	--	13.43	--	130	--	13	ND<0.50	ND<0.50	0.85	1,100	--	
	2/19/2002	NP	--	11.37	--	1,300	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2,300	--	
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	11/19/2002	--	--	13.30	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	12.75	--	--	--	--	--	--	--	--	--	
	11/13/2003	P	--	14.05	--	240	--	<2.5	<2.5	<2.5	<2.5	96	1.1	
	02/12/2004	--	--	11.27	--	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	12.25	--	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	13.12	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	12.81	--	160 J	--	<0.50	<0.50	<0.50	<0.50	<50 UJ	0.2	
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	--	10.77	--	--	--	--	--	--	--	--	--	Not Sampled
	08/22/2005	--	--	12.50	--	--	--	--	--	--	--	--	--	Not Sampled
	11/09/2005	NP	--	12.61	--	<500	--	<5.0	<5.0	<5.0	<5.0	19	0.5	
	02/01/2006	--	--	9.84	--	--	--	--	--	--	--	--	--	Not Sampled

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments	
SV-2	11/19/2001	--	--	13.22	--	23,000	--	5,500	ND<50	1,000	180	6,900	--		
	2/19/2002	NP	--	11.20	--	10,000	--	2,000	ND<25	590	340	4,300	--		
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	11/19/2002	--	--	13.33	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	12.50	--	--	--	--	--	--	--	--	--	--	
	11/13/2003	P	--	14.13	--	14,000	--	3,400 J	<100	190	<100	9,800	1.3		
	02/12/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	11.82	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	--	12.79	--	7,000	--	3,200	<50	66	480	0.1		
	02/07/2005	--	--	--	12.64	--	--	--	--	--	--	--	--	--	Not Sampled
05/10/2005	--	--	--	10.93	--	--	--	--	--	--	--	--	--	Not Sampled	
08/22/2005	--	--	--	11.90	--	--	--	--	--	--	--	--	--	Not Sampled	
11/09/2005	NP	--	--	12.22	--	9,900	--	2,600	<25	88	35	150	0.4		
02/01/2006	--	--	--	10.31	--	--	--	--	--	--	--	--	--	Not Sampled	
SV-3	11/19/2001	--	--	12.21	--	83	--	8.2	ND<0.50	ND<0.50	ND<0.50	1,400	--		
	2/19/2002	NP	--	10.77	--	30,000	--	24	0.57	ND<0.50	1.1	2,200	--		
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	11/19/2002	--	--	11.99	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	12.18	--	--	--	--	--	--	--	--	--	--	
	11/13/2003	P	--	12.71	--	80	--	<2.5	<2.5	<2.5	<2.5	9.8	0.3		
	02/12/2004	--	--	10.60	--	--	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	11.56	--	--	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	12.51	--	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	--	11.61	--	<50	--	<0.50	<0.50	<0.50	12 J	0.2		
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	P/ NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DO (mg/L)	Comments	
SV-3	05/10/2005	--	--	10.36	--	--	--	--	--	--	--	--	--	Not Sampled	
	08/22/2005	--	--	11.80	--	--	--	--	--	--	--	--	--	Not Sampled	
	11/09/2005	NP	--	11.52	--	<50	--	<0.50	<0.50	<0.50	<0.50	5.5	0.7	Not Sampled	
	02/01/2006	--	--	10.07	--	--	--	--	--	--	--	--	--	Not Sampled	
SV-4	11/19/2001	--	--	12.40	--	NS	--	NS	NS	NS	NS	NS	--	0.04 ft free product present, Not sampled	
	2/19/2002	--	--	10.75	--	NS	--	NS	NS	NS	NS	NS	--	Sheen, Not sampled	
	6/20/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	8/21/2002	--	--	NM	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	11/19/2002	--	--	11.89	--	NS	--	NS	NS	NS	NS	NS	--	Not sampled	
	02/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	12.52	--	--	--	--	--	--	--	--	--	--	
	11/13/2003	P	--	13.66	--	50,000	--	8,400	<100	5,400	17,000	1,500	1.2	--	
	02/12/2004	--	--	10.62	--	--	--	--	--	--	--	--	--	--	--
	05/14/2004	--	--	11.68	--	--	--	--	--	--	--	--	--	--	--
	08/17/2004	--	--	12.62	--	--	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	NP	--	11.69	--	36,000 J	--	8,100 J	<100	3,400 J	3,400 J	1,100 J	0.2	Not Sampled	
	02/07/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
	05/10/2005	--	--	10.43	--	--	--	--	--	--	--	--	--	--	Not Sampled
	08/22/2005	--	--	11.83	--	--	--	--	--	--	--	--	--	--	Not Sampled
11/09/2005	NP	--	11.45	--	31,000	--	3,700	<25	2,100	1,900	620	0.4	Not Sampled		
02/01/2006	--	--	9.77	--	--	--	--	--	--	--	--	--	--	Not Sampled	

**Table 1**

**Groundwater Elevation and Analytical Data**

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

- TPH = Total petroleum hydrocarbons  
MTBE = Methyl tertiary butyl ether  
µg/L = Micrograms per liter  
P = Purge  
NP = No Purge  
MSL = Mean Sea Level  
TOC = Top of Casing  
NS = Not sampled  
a = Chromatogram Pattern: Unidentified Hydrocarbons C6-C11  
b = Chromatogram Pattern: Weathered Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12  
c = This result is from a second dilution of the sample.  
d = Confirmed by using EPA Method 8260  
e = Depth to water measured 11/20/98.  
f = Depth to water measured 2/18/00.  
g = Well could not be opened.  
h = Analyzed by gasoline range organics (GRO) beginning first quarter 2004 (method 8015B)

**Data Qualifier Definitions:**

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample i.e., the presence or absence of the analyte cannot be verified) or the analyte identification has been rejected (i.e., the presence of the analyte cannot be verified).

Source : The data within this table collected prior to August 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Oxygenates Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
AS-1	02/12/2003	--	--	--	--	--	--	--	--	Not Sampled
	05/14/2003	--	--	--	--	--	--	--	--	Not Sampled
	08/13/2003	--	--	--	--	--	--	--	--	Not Sampled
	11/13/2003	<50,000	<10,000	600	<50	<50	<50	<25	<25	
	02/12/2004	--	--	--	--	--	--	--	--	Not Sampled
	05/14/2004	--	--	--	--	--	--	--	--	Not Sampled
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<10,000	<10,000 UJ	670 J	<100	<100	<100	<50	<50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
MW-1A	08/22/2005	--	--	--	--	--	--	--	--	
	11/09/2005	<5,000	<1,000	370	<25	<25	26	<25	<25	
	02/01/2006	--	--	--	--	--	--	--	--	Not Sampled
	02/12/2003	<4,000	<2,000	950	<50	<50	<50	--	--	
	05/14/2003	<50,000 UJ	<10,000 UJ	670 J	<500	<500	<500	--	--	
	08/13/2003	<50,000	<10,000	840	<500	<500	<500	<250	<250	
	11/13/2003	<20,000	<4,000	600	<200	<200	<200	<100	<100	
	02/12/2004	<25,000	<5,000	430	<250	<250	<250	<120	<120	
	05/14/2004	<50,000	<10,000	480	<500	<500	<500	<250	<250	
	08/17/2004	<25,000	<5,000	430	<250	<250	<250	<120	<120	
MW-2	11/12/2004	<10,000	<10,000 UJ	530 J	<100	<100	<100	<50	<50	
	02/07/2005	<1,000	480	360	<10	<10	<10	<5.0	<5.0	
	05/10/2005	<50,000	<10,000	370	<250	<250	<250	<250	<250	
	08/22/2005	<50,000 UJ	<10,000 UJ	370 J	<250 UJ	<250 UJ	<250 UJ	<250 UJ	<250 UJ	
	11/09/2005	<10,000	<2,000	370	<50	<50	<50	<50	<50	
	02/01/2006	<30,000	<2,000	290	<50	<50	<50	90	<50	
	02/12/2003	<4,000	<2,000	490	<50	<50	<50	--	--	
	05/14/2003	<5,000 UJ	<1,000 UJ	600 J	<50	<50	<50	--	--	
	08/13/2003	<5,000	<1,000	700	<50	<50	<50	<25	<25	
	11/13/2003	<5,000	<1,000	540	<50	<50	<50	<25	<25	
MW-2	02/12/2004	<1,000	560	220	<10	<10	<10	<5.0	<5.0	
	05/14/2004	<10,000	<2,000	220	<100	<100	<100	<50	<50	
	08/17/2004	<5,000	<1,000	260	<50	<50	<50	<25	<25	

Table 2

Fuel Oxygenates Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-2	11/12/2004	<2,500	87,000 J	180	<25	<25	<25	<12	<12	
	02/07/2005	<1,000	910	78	<10	<10	<10	<5.0	<5.0	
	05/10/2005	<500	370	120	<2.5	<2.5	<2.5	<2.5	<2.5	
	08/22/2005	<500 UJ	510 J	110 J	<2.5 UJ	<2.5 UJ	3.6 J	<2.5 UJ	<2.5 UJ	
	11/09/2005	<500	530	78	<2.5	<2.5	4.1	<2.5	<2.5	
	<b>02/01/2006</b>	<b>&lt;600</b>	<b>&lt;40</b>	<b>12</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	
MW-3	02/12/2003	<40	<20	0.66	<0.50	<0.50	<0.50	--	--	
	05/14/2003	<100 UJ	<20 UJ	<0.50	<1.0	<1.0	<1.0	--	--	
	08/13/2003	<500	<100	83	<5.0	<5.0	<5.0	<2.5	<2.5	
	11/13/2003	<1,000	<200	230	<10	<10	<10	<5.0	<5.0	
	02/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	08/17/2004	<100	<20	30	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100	<200 UJ	120 J	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/07/2005	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	23 J	<0.50 UJ					
	11/09/2005	<100	<20	46	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>02/01/2006</b>	<b>&lt;300</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>		
MW-4	02/12/2003	<40	<20	220	<0.50	<0.50	1.1	--	--	
	05/14/2003	<2,000 UJ	<400 UJ	700 J	<20	<20	<20	--	--	
	08/13/2003	<100	<20	1.2	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/13/2003	<100	<20	12	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
	08/17/2004	<100	<20	11	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100 UJ	<20 UJ	0.81 J	<1.0 UJ	<1.0 UJ	<1.0 UJ	<0.50 UJ	<0.50 UJ	
	02/07/2005	<100	<20	3.1	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
	11/09/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>02/01/2006</b>	<b>&lt;300</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>		
MW-5	02/12/2003	--	--	--	--	--	--	--	Well Inaccessible	

Table 2

Fuel Oxygenates Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-5	05/14/2003	--	--	--	--	--	--	--	--	Well Inaccessible
	11/13/2003	--	--	--	--	--	--	--	--	Well Inaccessible
	02/12/2004	--	--	--	--	--	--	--	--	Well Inaccessible
	05/14/2004	<2,000	<400	370	<20	<20	<20	<10	<10	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	--	--	--	--	--	--	--	--	Not Sampled
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	<1,000 UJ	<200	320	<5.0	<5.0	<5.0	<5.0	<5.0	Not sampled
	08/22/2005	--	--	--	--	--	--	--	--	Not scheduled to be sampled
	11/09/2005	--	--	--	--	--	--	--	--	Not sampled
02/01/2006	--	--	--	--	--	--	--	--	Not sampled	
MW-6	02/12/2003	<400	<200	<5.0	<5.0	<5.0	<5.0	--	--	
	05/14/2003	<1,000 UJ	1,000 J	44 J	<10	<10	<10	--	--	
	08/13/2003	<500	<100	21	<5.0	<5.0	<5.0	<2.5	<2.5	
	11/13/2003	<500	<100	12	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/12/2004	<100	<20	3.9	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<500	<100	9.8	<5.0	<5.0	<5.0	<2.5	<2.5	
	08/17/2004	<100	<20	6.4	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<500	<100 UJ	31 J	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/07/2005	<100	<20	4.1	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100 UJ	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	08/22/2005	<100 UJ	<20 UJ	11 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
	11/09/2005	<100	<20	17	<0.50	<0.50	1.3	<0.50	<0.50	
	02/01/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/12/2003	--	--	--	--	--	--	--	--	
MW-7	05/14/2003	<10,000 UJ	<4,000	1,100	<100	<100	<100	--	--	
	08/13/2003	--	--	--	--	--	--	--	--	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	<2,500	<500	530	<25	<25	<25	<12	<12	Not Sampled
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
11/12/2004	--	--	--	--	--	--	--	--	Not Sampled	
02/07/2005	--	--	--	--	--	--	--	--		

Table 2

Fuel Oxygenates Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-7	05/10/2005	<200 UJ	<40	140	<1.0	<1.0	<1.0	<1.0	<1.0	
	08/22/2005	--	--	--	--	--	--	--	--	
	11/09/2005	--	--	--	--	--	--	--	--	Not scheduled to be sampled
	<b>02/01/2006</b>	--	--	--	--	--	--	--	--	<b>Not sampled</b>
MW-8	02/12/2003	<4,000	<2,000	2,300	<50	<50	<50	--	--	
	05/14/2003	<10,000 UJ	<2,000 UJ	4,900 J	<100	<100	<100	--	--	
	08/13/2003	<10,000	<2,000	4,700	<100	<100	<100	<50	<50	
	11/13/2003	<10,000	<2,000	3,900	<100	<100	<100	<50	<50	
	02/12/2004	<2,500	2,200	800	<25	<25	<25	<12	<12	
	05/14/2004	<2,500	2,800	250	<25	<25	<25	<12	<12	
	08/17/2004	<100	3,500	33	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100	1,600 J	<50 UJ	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/07/2005	<100	<20	9.7	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100 UJ	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	2.4 J	<0.50 UJ					
	11/09/2005	<100	<20	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	<b>02/01/2006</b>	<b>&lt;300</b>	<b>&lt;20</b>	<b>0.79</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
MW-9	02/12/2003	<40	<20	3.4	<0.50	<0.50	<0.50	--	--	
	05/14/2003	<100 UJ	<20 UJ	4.4 J	<1.0	<1.0	<1.0	--	--	
	08/13/2003	<200	<40	42	15	<2.0	<2.0	<1.0	<1.0	
	11/13/2003	<100	<20	49	6.4	<1.0	<1.0	<0.50	<0.50	
	02/12/2004	<100	<20	8.0	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/14/2004	<100	<20	21	11	<1.0	<1.0	<0.50	<0.50	
	08/17/2004	<100	<20	17	23	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100 UJ	<20 UJ	39 J	25 J	<1.0 UJ	<1.0 UJ	<0.50 UJ	<0.50 UJ	
	02/07/2005	<100	<20	2.5	<1.0	<1.0	<1.0	<0.50	<0.50	
	05/10/2005	<100 UJ	<20	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	1.4 J	<0.50 UJ					
	08/25/2005	--	--	--	--	--	--	--	--	
	11/09/2005	<100	<20	12	18	<0.50	<0.50	<0.50	<0.50	
	<b>02/01/2006</b>	<b>&lt;300</b>	<b>&lt;20</b>	<b>0.69</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	
MW-10	02/12/2003	<40	45	88	<0.50	<0.50	2.3	--	--	
	05/14/2003	<200 UJ	<40 UJ	78 J	<2.0 UJ	<2.0 UJ	<2.0 UJ	--	--	

Table 2

Fuel Oxygenates Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
MW-10	08/13/2003	<250	<50	82	<2.5	<2.5	<2.5	<1.2	<1.2	
	11/13/2003	<100	<20	4.6	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/12/2004	<100	40	77	<1.0	<1.0	1.8	<0.50	<0.50	
	05/14/2004	<500	<100	64	<5.0	<5.0	<5.0	<2.5	<2.5	
	08/17/2004	<100	<20	20	<1.0	<1.0	<1.0	<0.50	<0.50	
	11/12/2004	<100	48 J	87 J	<1.0	<1.0	1.9	<0.50	<0.50	
	02/07/2005	<500	<100	44	<5.0	<5.0	<5.0	<2.5	<2.5	
	05/10/2005	<100 UJ	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/22/2005	<100 UJ	<20 UJ	2.9 J	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	<0.50 UJ	
	11/09/2005	<100	88	52	<0.50	<0.50	1.9	<0.50	<0.50	
	02/01/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
SV-1	02/12/2003	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	--	--	--	--	--	--	
	11/13/2003	<500	9,300	96	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<100	16,000 J	<50 UJ	1.0	<1.0	1.4	<0.50	<0.50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	08/22/2005	--	--	--	--	--	--	--	--	
SV-2	11/09/2005	<1,000	9,300	19	<5.0	<5.0	9.6	<5.0	<5.0	
	02/01/2006	--	--	--	--	--	--	--	--	Not Sampled
	02/12/2003	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	--	--	--	--	--	--	
	11/13/2003	<20,000	<4,000	9,800	<200	<200	200	<100	<100	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<10,000	8,700	480	<100	<100	<100	<50	<50	
	02/07/2005	--	--	--	--	--	--	--	--	

Table 2

Fuel Oxygenates Analytical Data

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Comments
SV-2	05/10/2005	--	--	--	--	--	--	--	--	
	08/22/2005	--	--	--	--	--	--	--	--	
	11/09/2005	<5,000	8,600	150	<25	<25	27	<25	<25	
	02/01/2006	--	--	--	--	--	--	--	--	Not Sampled
SV-3	02/12/2003	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	--	--	--	--	--	--	
	11/13/2003	<500	2,100	9.8	<5.0	<5.0	<5.0	<2.5	<2.5	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<100	650 J	12 J	<1.0	<1.0	<1.0	<0.50	<0.50	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	08/22/2005	--	--	--	--	--	--	--	--	
	11/09/2005	<100	650	5.5	<0.50	<0.50	<0.50	<0.50	<0.50	Not Sampled
02/01/2006	--	--	--	--	--	--	--	--	Not Sampled	
SV-4	02/12/2003	--	--	--	--	--	--	--	--	
	05/14/2003	--	--	--	--	--	--	--	--	
	08/13/2003	--	--	--	--	--	--	--	--	
	11/13/2003	<20,000	<4,000	1,500	<200	<200	<200	<100	<100	
	02/12/2004	--	--	--	--	--	--	--	--	
	05/14/2004	--	--	--	--	--	--	--	--	
	08/17/2004	--	--	--	--	--	--	--	--	Not Sampled
	11/12/2004	<20,000	<4,000	1,100 J	<200	<200	<200	<100	<100	
	02/07/2005	--	--	--	--	--	--	--	--	
	05/10/2005	--	--	--	--	--	--	--	--	
	08/22/2005	--	--	--	--	--	--	--	--	
	11/09/2005	<5,000	<1,000	620	<25	<25	<25	<25	<25	
02/01/2006	--	--	--	--	--	--	--	--	Not Sampled	

**Table 2**

**Fuel Oxygenates Analytical Data**

ARCO Service Station No. 1341  
8505 Gravenstein Highway, Cotati, CA

**NOTES:**

All fuel oxygenate compounds analyzed using EPA Method 8260B

DIPE = Di-isopropyl ether

ETBE = Ethyl tert butyl ether

MTBE = Methyl tert-butyl ether

NA = Data not available, not analyzed, or not applicable

< = Less than laboratory reporting limit

NS = Not Sampled

TAME = tert-Amyl methyl ether

µg/L = micrograms per liter

TBA = tert-Butyl alcohol

Table 3

Historical Volatile Organic Compound Data

ARCO Service Station No. 1341

8505 Gravenstein Highway, Cotati, CA

Well Number	Date Sampled	DCE12C (µg/L)	TBA (µg/L)	TAME (µg/L)	IPBZ (µg/L)	PBZN (µg/L)	TMB135 (µg/L)	TMB124 (µg/L)	BTBZS (µg/L)	CYMB (µg/L)	BTBZN (µg/L)	NAPH (µg/L)
MW-1A	8/5/1999	1	610	35	270	720	110	240	35	5	67	1,700
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	17
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	8/5/1999	<1	<100	<10	47	130	<4	<4	<4	<4	24	310
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	5
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	8/5/1999	<2.5	<250	<25	<10	<10	<10	<10	<10	<10	<10	<10
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	8/5/1999	<0.5	<50	<5	<2	<2	<2	<2	<2	<2	<2	<2
	11/18/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

< = Not detected at or above specified laboratory method detection limit

NA = Not analyzed

(µg/L) = Micrograms per liter

DCE12C = cis-1,2-Dichloroethene

TBA = tert-Butyl Alcohol

TAME = tert-Amyl Methyl Ether

IPBZ = Isopropyl-benzene

PBZN = n-Propyl-benzene

TMB135 = 1,3,5-Trimethyl-benzene

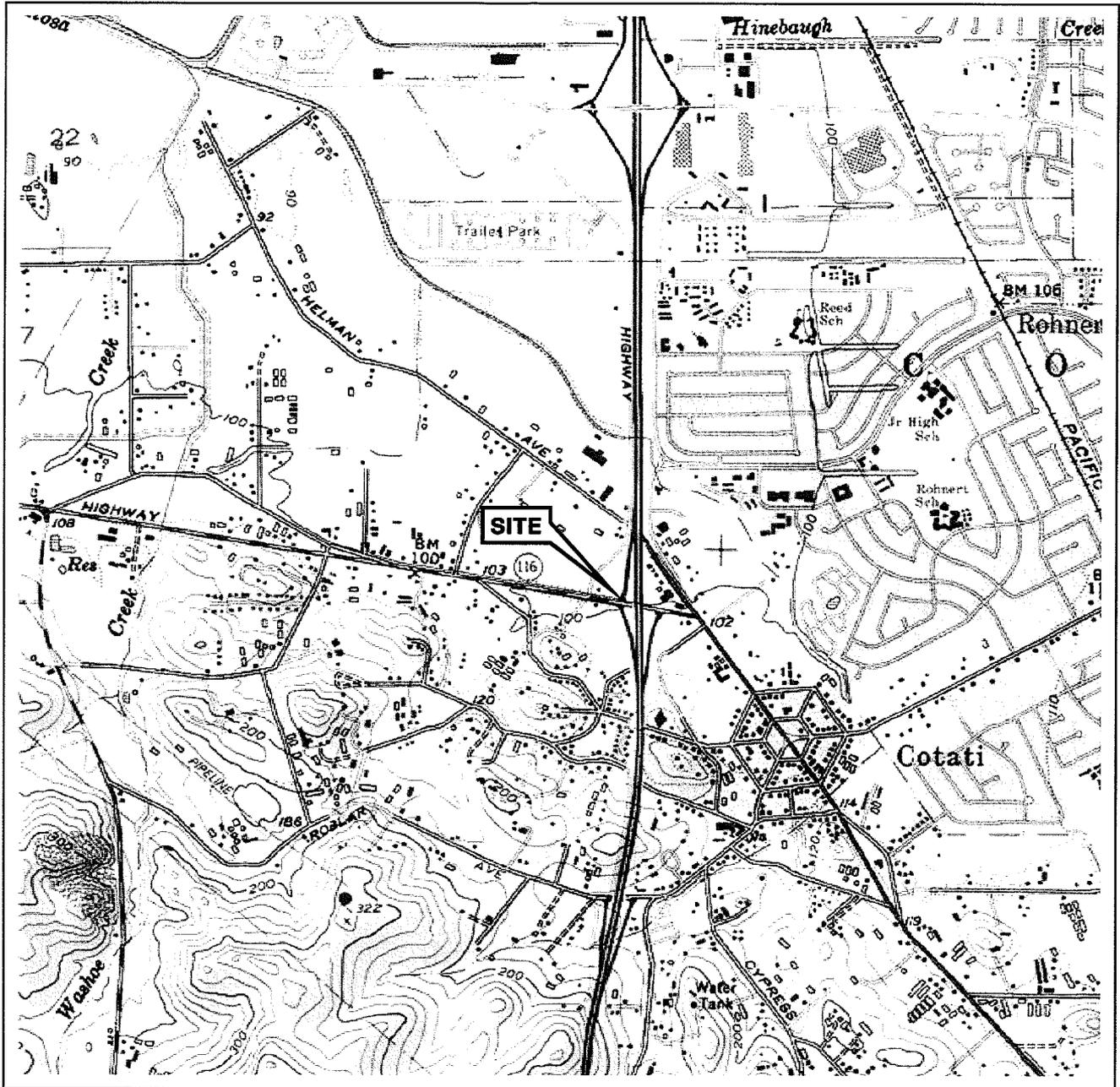
TMB124 = 1,2,4-Trimethyl-benzene

BTBZS = sec-Butyl-benzene

CYMB = 4-Isopropyl-toluene

NAPH = Napthalene

# FIGURES



0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Cotati Quadrangle

QUADRANGLE  
LOCATION

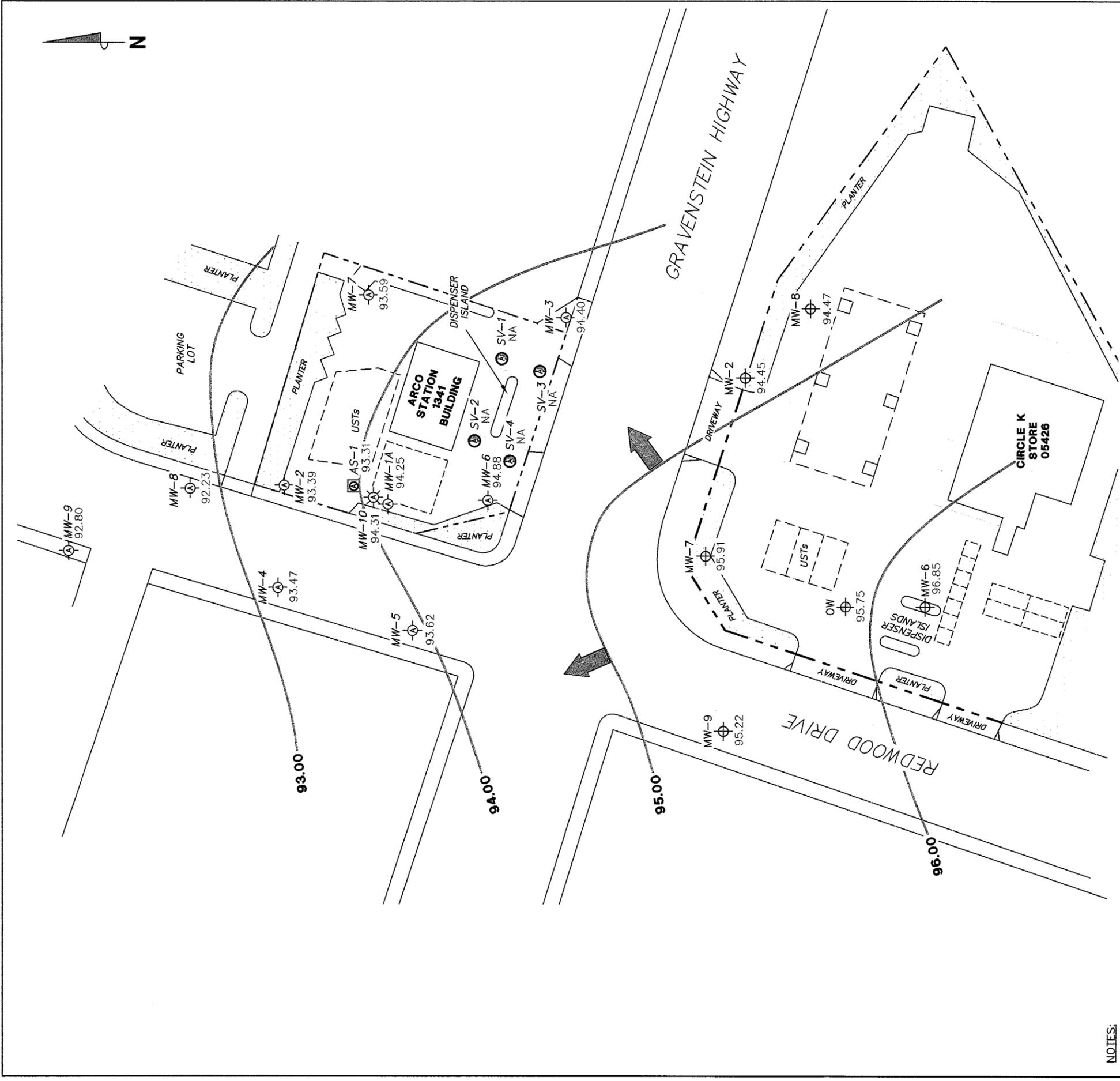


VICINITY MAP

Circle K Store 05426  
8510 Gravenstein Highway  
Cotati, California

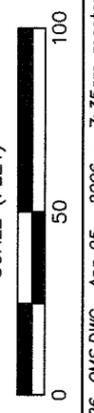
**TRC**

**FIGURE 1**



**GROUNDWATER ELEVATION  
CONTOUR MAP**  
February 15, 2006

Circle K Store 05426  
8510 Gravenstein Highway  
Cotati, California

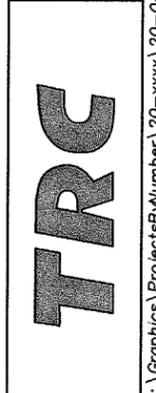


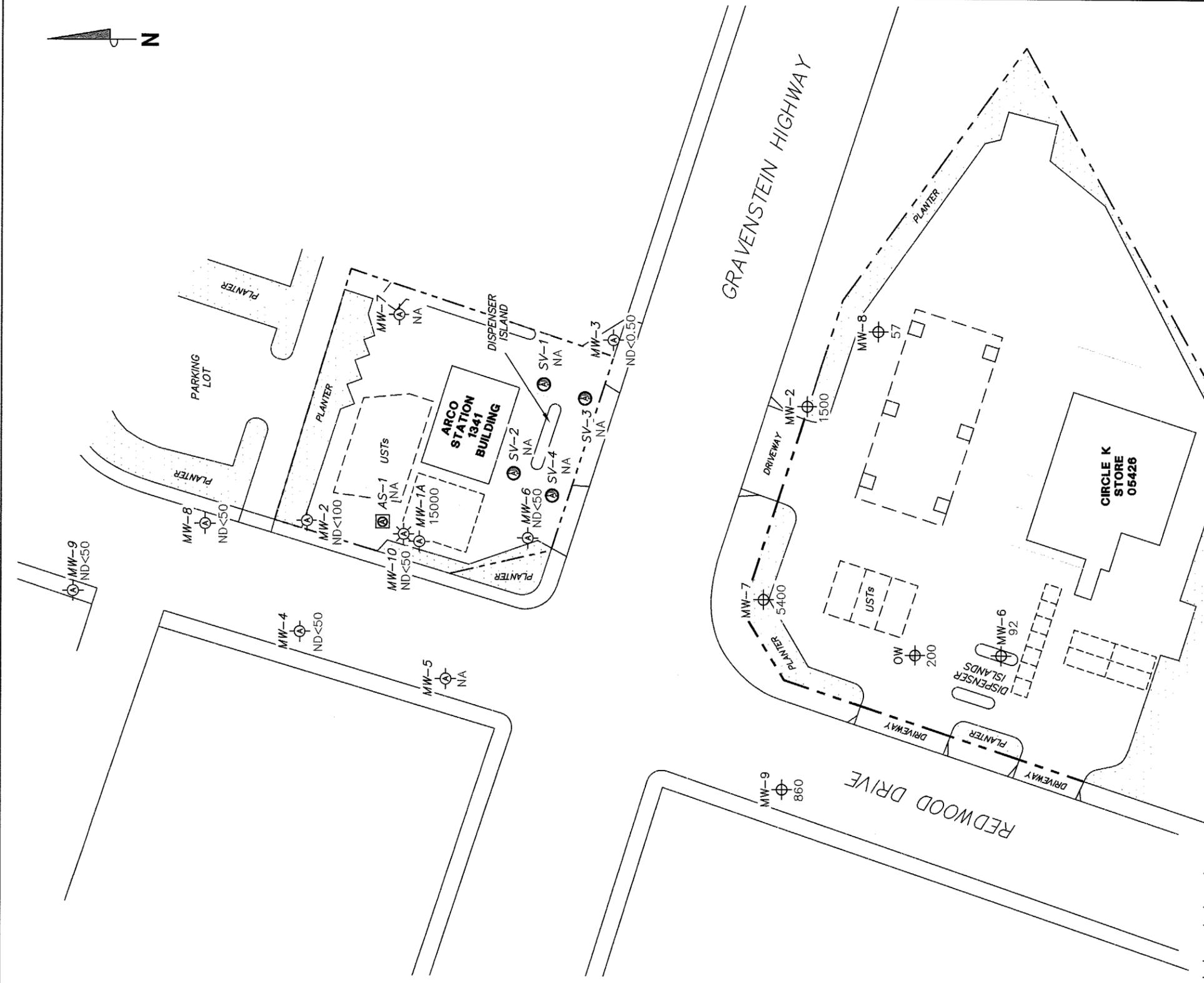
**FIGURE 2**

**NOTES:**

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank. ARCO Station 1341 data provided by URS Corporation; gauged on 2/01/06.

LEGEND	
MW-9	Circle K Monitoring Well with Groundwater Elevation (feet)
ow	Circle K Observation
MW-9	Arco Monitoring Well
MW-10	Arco Lower Zone Monitoring Well
SV-4	Arco Vapor Extraction Well
AS-1	Arco Air Sparge Point
96.00	Groundwater Elevation Contour
	General Direction of Groundwater Flow





**NOTES:**

TPPH = total purgeable petroleum hydrocarbons.  
 TPH-G = total petroleum hydrocarbons as gasoline.  
 µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
 NA = not analyzed, measured, or collected.  
 UST = underground storage tank.  
 ARCO Station 1341 data provided by URS Corporation; TPH-G results obtained using EPA Method 8015; sampled on 2/01/06. TPPH results obtained using EPA Method 8260B.

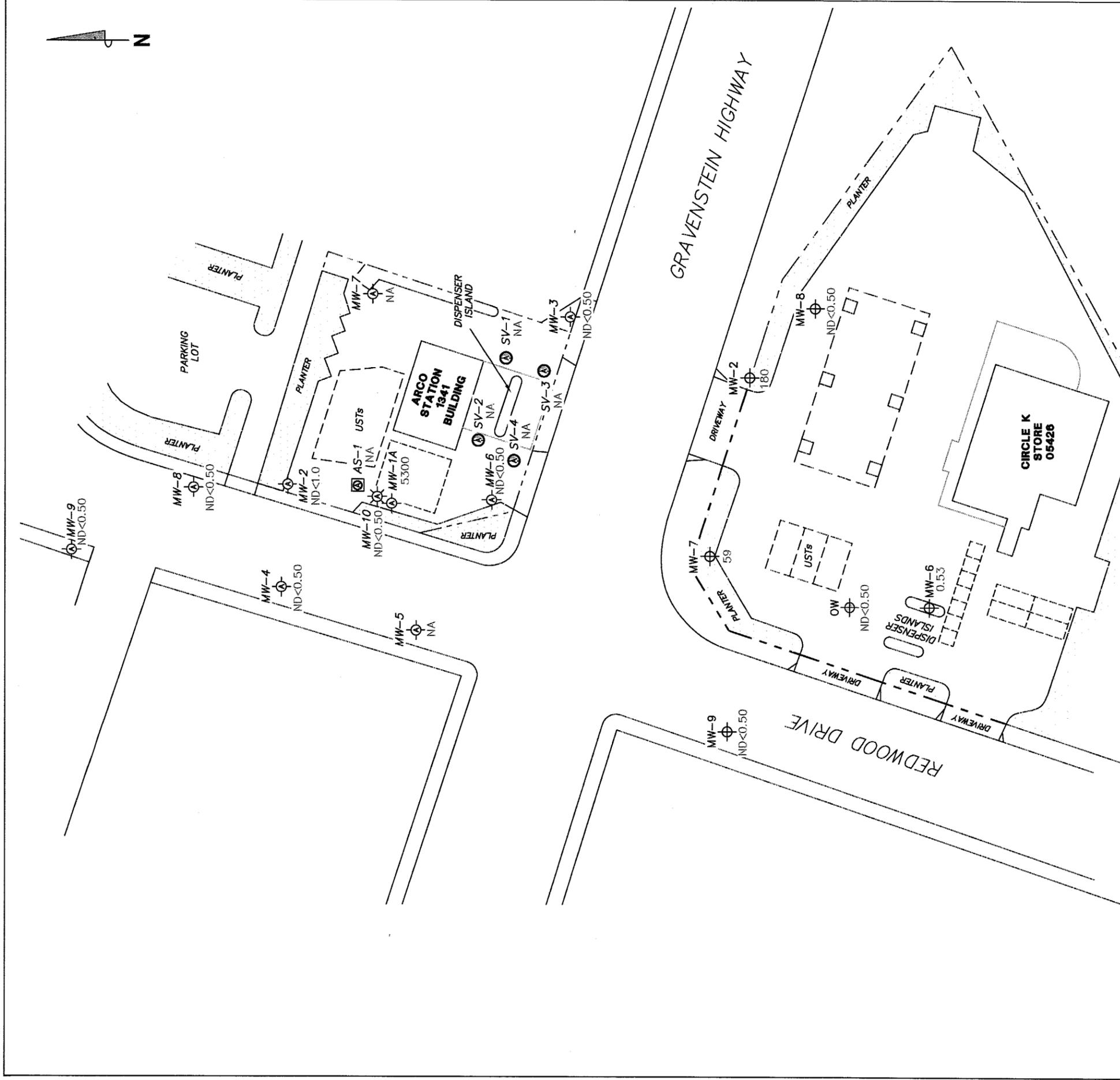
LEGEND	
MW-9	Circle Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)
OW	Circle K Observation
MW-9	Arco Monitoring Well with Dissolved-Phase TPH-G Concentration (µg/l)
MW-10	Arco Lower Zone Monitoring Well
SV-4	Arco Vapor Extraction Well
AS-1	Arco Air Sparge Point

**DISSOLVED-PHASE TPPH  
 CONCENTRATION MAP  
 February 15, 2006**

Circle K Store 05426  
 8510 Gravenstein Highway  
 Cotati, California



**FIGURE 3**



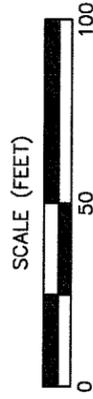
**NOTES:**

ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Dashes indicate contour based on non-detect at elevated detection limit. ARCO Station 1341 data provided by URS Corporation; sampled on 2/01/06.

**LEGEND**

- MW-9  $\oplus$  Circle K Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )
- OW  $\oplus$  Circle K Observation
- MW-9  $\oplus$  Arco Monitoring Well
- MW-10  $\oplus$  Arco Lower Zone Monitoring Well
- SV-4  $\oplus$  Arco Vapor Extraction Well
- AS-1  $\oplus$  Arco Air Sparge Point

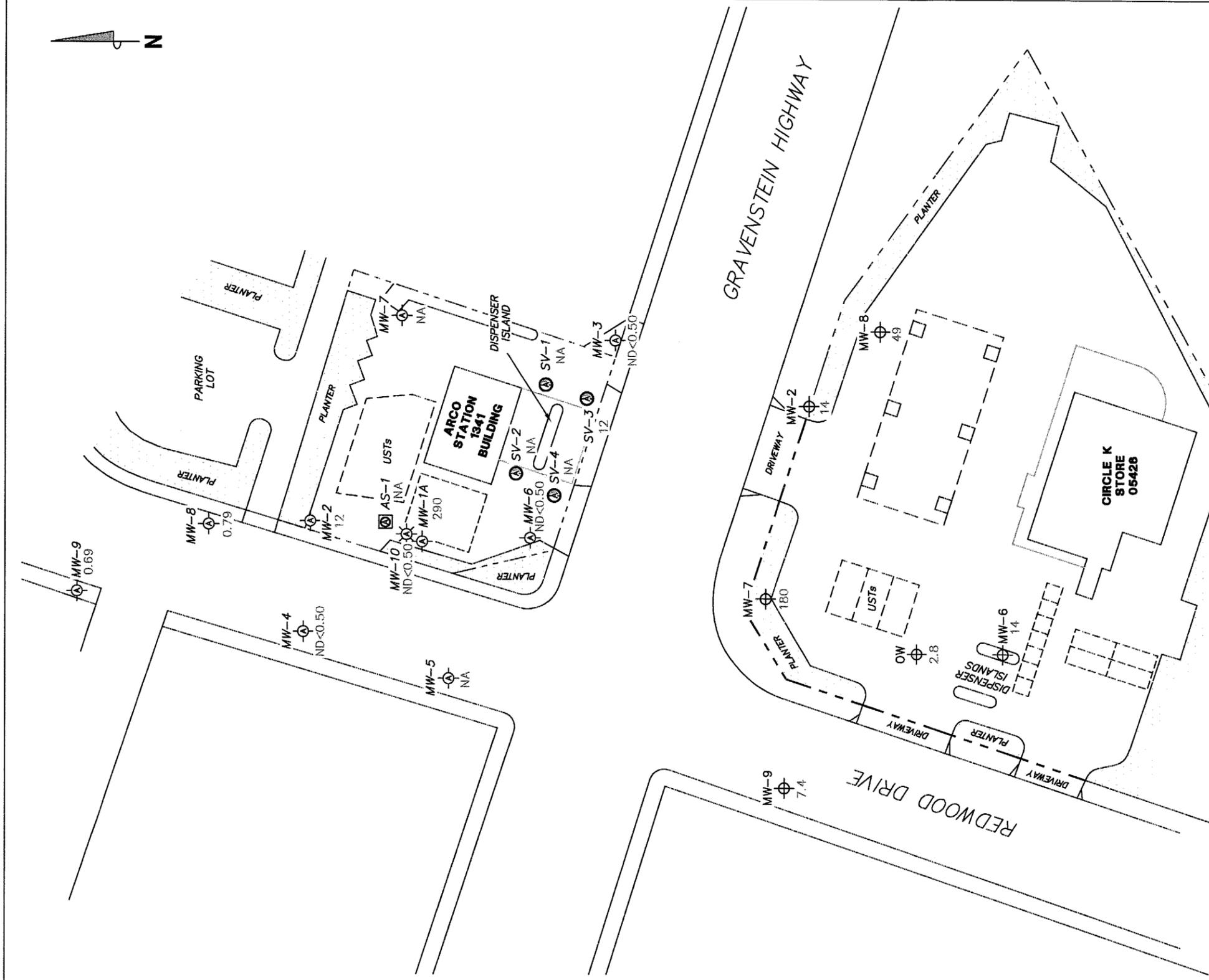
**TRC**



**DISSOLVED-PHASE BENZENE  
CONCENTRATION MAP  
February 15, 2006**

Circle K Store 05426  
8510 Gravenstein Highway  
Cotati, California

**FIGURE 4**



**NOTES:**

MTBE = methyl tertiary butyl ether.  
 µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
 NA = not analyzed, measured, or collected.  
 UST = underground storage tank.  
 ARCO Station 1341 data provided by URS Corporation; sampled on 2/01/06. Results obtained using EPA Method 8260B.

**LEGEND**

- MW-9 ⊕ Circle K Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- OW ⊕ Circle K Observation
- MW-9 ⊕ Arco Monitoring Well
- MW-10 ⊕ Arco Lower Zone Monitoring Well
- SV-4 ⊕ Arco Vapor Extraction Well
- AS-1 ⊕ Arco Air Sparge Point

**TRC**



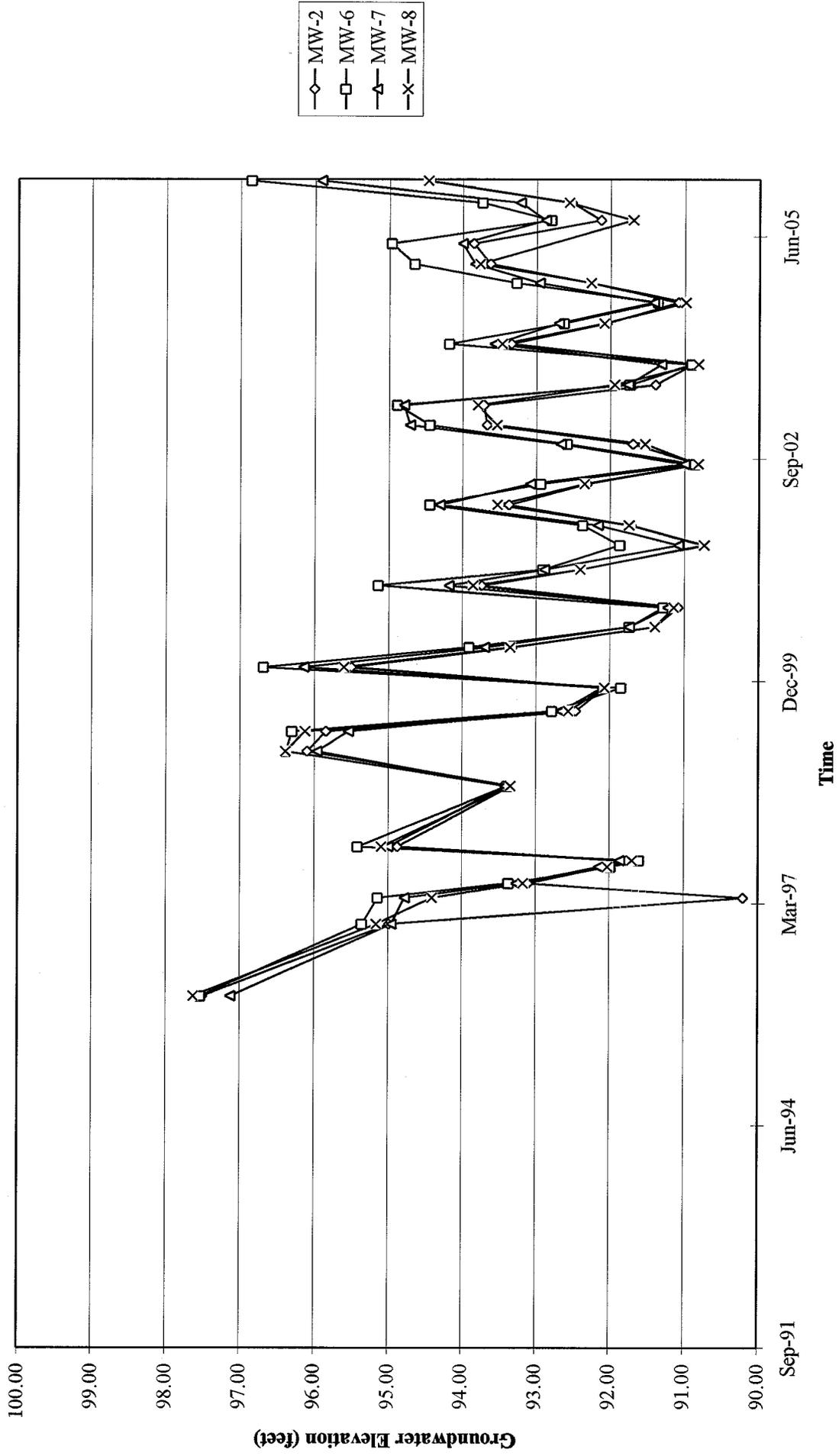
**DISSOLVED-PHASE MTBE  
 CONCENTRATION MAP  
 February 15, 2006**

Circle K Store 05426  
 8510 Gravenstein Highway  
 Cotati, California

**FIGURE 5**

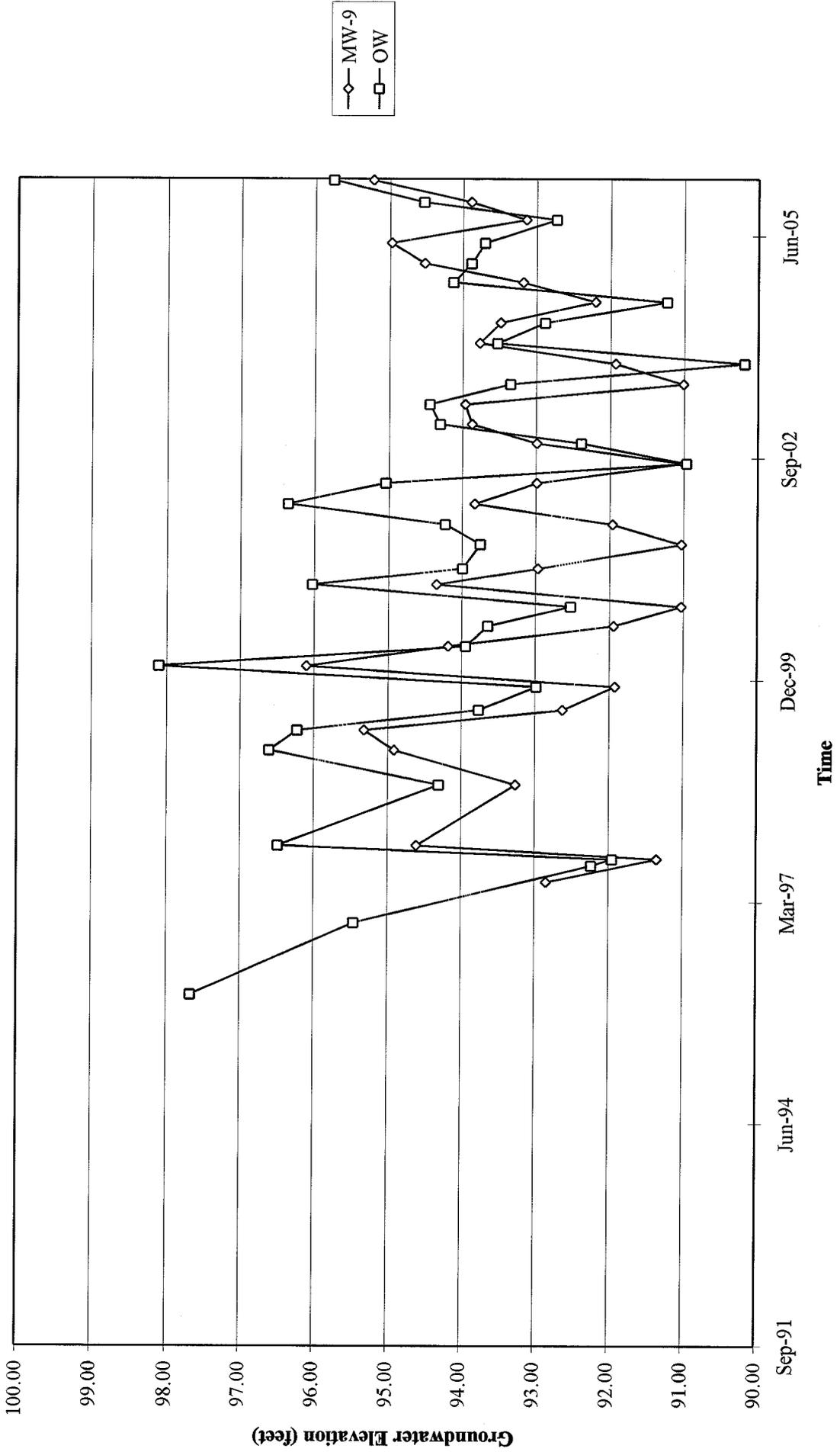
# GRAPHS

Groundwater Elevations vs. Time  
 Circle K Store 05426



Elevations may have been corrected for apparent changes due to resurvey

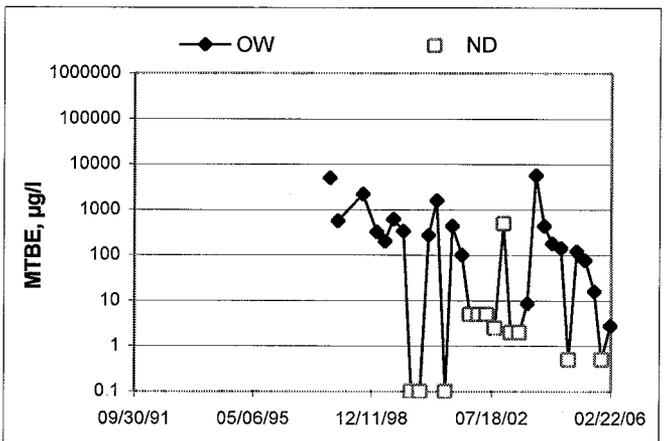
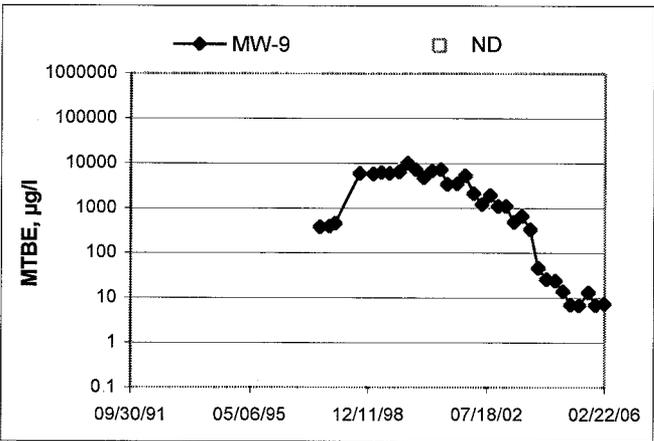
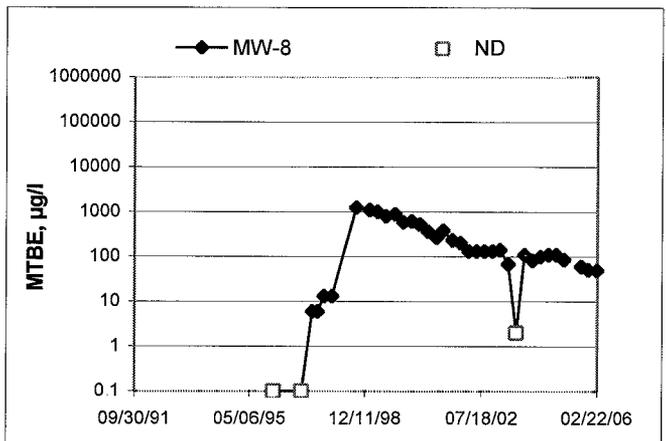
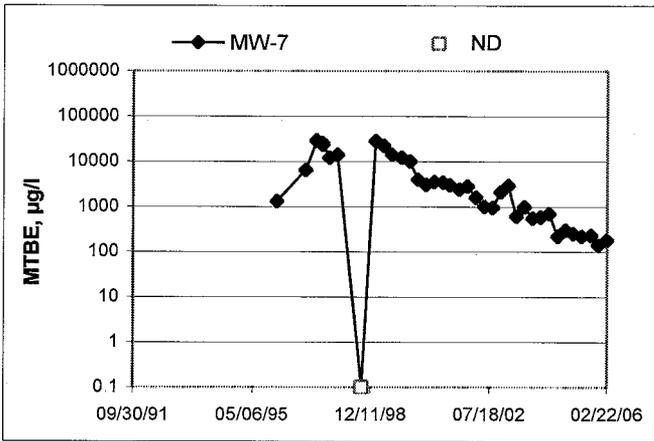
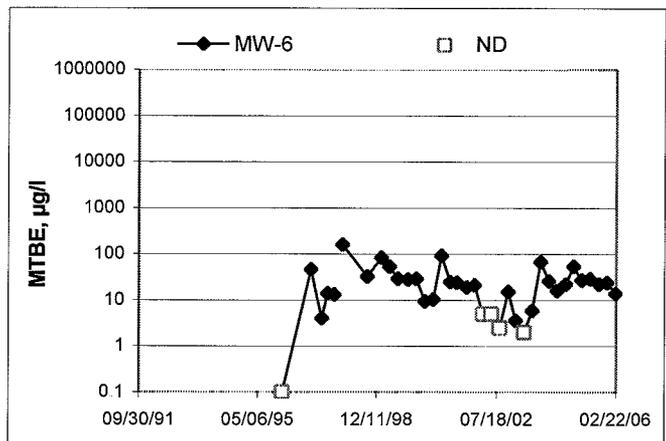
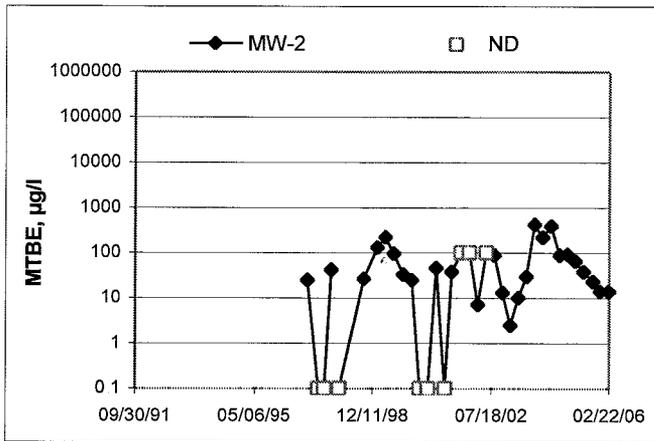
Groundwater Elevations vs. Time  
 Circle K Store 05426



Elevations may have been corrected for apparent changes due to resurvey



**MTBE Concentrations vs Time**  
Circle K Store 05426



# GENERAL FIELD PROCEDURES

## **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

## **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

## **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

## **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

## **Sequence of Gauging, Purging and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

## **Decontamination**

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

## **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.



### GROUNDWATER SAMPLING FIELD NOTES

Technician: Melissa

Site: 05426

Project No.: 41050001

Date: 02-15-06

Well No.: 06

Purge Method: Di

Depth to Water (feet): 8.03

Depth to Product (feet): -

Total Depth (feet): 18.91

LPH & Water Recovered (gallons): -

Water Column (feet): 10.88

Casing Diameter (Inches): 24"

80% Recharge Depth (feet): 10.20

1 Well Volume (gallons): 250

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0851			250	232	15.9	6.23		
	0950		512	292	16.6	6.15		
1005	1037		768	315	17.5	6.20		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
8.03			768		1043			
Comments:								

Well No.: MW-9

Purge Method: Di

Depth to Water (feet): 7.42

Depth to Product (feet): -

Total Depth (feet): 17.55

LPH & Water Recovered (gallons): -

Water Column (feet): 10.13

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.44

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0704			2	564	14.5	6.85		
			4	563	15.2	6.72		
	0706		6	561	15.6	6.60		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
7.45			6		0710			
Comments:								

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Melissa

Site: 05426

Project No.: 41050001

Date: 02/15/06

Well No.: MW-8

Purge Method: D.a

Depth to Water (feet): 8.73

Depth to Product (feet): —

Total Depth (feet): 19.24

LPH & Water Recovered (gallons): —

Water Column (feet): 10.51

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 10.83

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0736			2	841	13.2	6.43		
			4	875	14.8	6.41		
	0738		6	883	15.3	6.33		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
8.73			6		0742			
Comments:								

Well No.: MW-6

Purge Method: D.a

Depth to Water (feet): 7.40

Depth to Product (feet): —

Total Depth (feet): 20.06

LPH & Water Recovered (gallons): —

Water Column (feet): 12.66

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.93

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0812			2	630	16.7	6.00		
			4	638	16.8	6.02		
	0814		6	660	17.0	6.01		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
7.40			6		0818			
Comments:								

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Melissa

Site: 05424

Project No.: 41050001

Date: 02-15-06

Well No.: MW-7

Purge Method: Pin

Depth to Water (feet): 7.91

Depth to Product (feet): -

Total Depth (feet): 20.09

LPH & Water Recovered (gallons): -

Water Column (feet): 12.13

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 10.33

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. °C)	pH	Turbidity	D.O.
0800			2	714	16.5	6.32		
			4	707	16.4	6.31		
	0802		6	744	16.6	6.30		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
7.91			6		0806			
Comments:								

Well No.: MW-2

Purge Method: Di

Depth to Water (feet): 8.53

Depth to Product (feet): -

Total Depth (feet): 21.75

LPH & Water Recovered (gallons): -

Water Column (feet): 13.22

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.17

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. °C)	pH	Turbidity	D.O.
0749			2	676	15.7	6.28		
			4	689	16.2	6.25		
	0751		6	737	16.4	6.23		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
8.53			6		0755			
Comments:								

## ANALYTICAL REPORT

Job Number: 720-2118-1

Job Description: Conoco Phillips #05426, Cotati

For:

TRC Solutions  
21 Technology Drive  
Irvine, CA 92718

Attention: Ms. Anju Farfan



---

Afsaneh Salimpour  
Project Manager I  
asalimpour@stl-inc.com  
03/09/2006

**Severn Trent Laboratories, Inc.**

STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925-484-1919 Fax 925-484-1096 [www.stl-inc.com](http://www.stl-inc.com)

## METHOD SUMMARY

Client: TRC Solutions

Job Number: 720-2118-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Volatile Organic Compounds by GC/MS	STL-SF	SW846	8260B
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846	8015B
Organic Compounds in Water by Microextraction	STL-SF		SW846 3511

### LAB REFERENCES:

STL-SF = STL-San Francisco

### METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

**METHOD / ANALYST SUMMARY**

Client: TRC Solutions

Job Number: 720-2118-1

<b>Method</b>		<b>Analyst</b>	<b>Analyst ID</b>
SW846	8260B	Chen, Amy	AC
SW846	8260B	Lew, Matthew	MLEW
SW846	8015B	Le, Lien	LL

## SAMPLE SUMMARY

Client: TRC Solutions

Job Number: 720-2118-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>		<b>Date/Time Received</b>	
720-2118-1	OW	Water	02/15/2006	1043	02/15/2006	1722
720-2118-2	MW-9	Water	02/15/2006	0710	02/15/2006	1722
720-2118-3	MW-8	Water	02/15/2006	0742	02/15/2006	1722
720-2118-4	MW-6	Water	02/15/2006	0818	02/15/2006	1722
720-2118-5	MW-7	Water	02/15/2006	0806	02/15/2006	1722
720-2118-6	MW-2	Water	02/15/2006	0755	02/15/2006	1722

# Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

**Client Sample ID: OW**

Lab Sample ID: 720-2118-1

Date Sampled: 02/15/2006 1043

Client Matrix: Water

Date Received: 02/15/2006 1722

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## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-6118

Instrument ID: Varian 3900A

Preparation: 5030B

Lab File ID: c:\saturmws\data\200602\02

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 02/27/2006 1209

Final Weight/Volume: 10 mL

Date Prepared: 02/27/2006 1209

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	2.8		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	200		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	97		77 - 121
1,2-Dichloroethane-d4	105		73 - 130

# Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-9

Lab Sample ID: 720-2118-2

Date Sampled: 02/15/2006 0710

Client Matrix: Water

Date Received: 02/15/2006 1722

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-6118

Instrument ID: Varian 3900A

Preparation: 5030B

Lab File ID: c:\saturnws\data\200602\02

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 02/27/2006 1232

Final Weight/Volume: 10 mL

Date Prepared: 02/27/2006 1232

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	2.0		0.50
MTBE	7.4		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	860		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	102		77 - 121
1,2-Dichloroethane-d4	105		73 - 130



## Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-6

Lab Sample ID: 720-2118-4

Date Sampled: 02/15/2006 0818

Client Matrix: Water

Date Received: 02/15/2006 1722

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-6118

Instrument ID: Varian 3900A

Preparation: 5030B

Lab File ID: c:\saturmws\data\200602\02

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 02/27/2006 1518

Final Weight/Volume: 10 mL

Date Prepared: 02/27/2006 1518

Analyte	Result (ug/L)	Qualifier	RL
Benzene	0.53		0.50
Ethylbenzene	ND		0.50
MTBE	14		0.50
Toluene	ND		0.50
Xylenes, Total	1.9		1.0
Gasoline Range Organics (GRO)-C6-C12	92		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	101		77 - 121
1,2-Dichloroethane-d4	108		73 - 130



## Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-7

Lab Sample ID: 720-2118-5

Date Sampled: 02/15/2006 0806

Client Matrix: Water

Date Received: 02/15/2006 1722

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### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-6127

Instrument ID: Varian 3900A

Preparation: 5030B

Lab File ID: c:\saturnws\data\200603\03

Dilution: 5.0

Initial Weight/Volume: 10 mL

Date Analyzed: 03/01/2006 1430

Final Weight/Volume: 10 mL

Date Prepared: 03/01/2006 1430

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C12	5400		250

# Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-2

Lab Sample ID: 720-2118-6

Date Sampled: 02/15/2006 0755

Client Matrix: Water

Date Received: 02/15/2006 1722

## 8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-6118

Instrument ID: Varian 3900A

Preparation: 5030B

Lab File ID: c:\saturday\data\200602\02

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 02/27/2006 1605

Final Weight/Volume: 10 mL

Date Prepared: 02/27/2006 1605

Analyte	Result (ug/L)	Qualifier	RL
Benzene	180		0.50
Ethylbenzene	16		0.50
MTBE	14		0.50
Toluene	3.8		0.50
Xylenes, Total	54		1.0
Gasoline Range Organics (GRO)-C6-C12	1500		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	101		77 - 121
1,2-Dichloroethane-d4	113		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: OW

Lab Sample ID: 720-2118-1

Date Sampled: 02/15/2006 1043

Client Matrix: Water

Date Received: 02/15/2006 1722

---

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-6007	Instrument ID: Varian DRO4
Preparation:	3511	Prep Batch: 720-5758	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 35.00 mL
Date Analyzed:	02/26/2006 1047		Final Weight/Volume: 2 mL
Date Prepared:	02/21/2006 0724		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C9-C24)	270		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	116		60 - 130

# Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-9

Lab Sample ID: 720-2118-2

Date Sampled: 02/15/2006 0710

Client Matrix: Water

Date Received: 02/15/2006 1722

---

## 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-6007	Instrument ID: Varian DRO4
Preparation:	3511	Prep Batch: 720-5758	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 35.00 mL
Date Analyzed:	02/26/2006 1115		Final Weight/Volume: 2 mL
Date Prepared:	02/21/2006 0724		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C9-C24)	57		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	113		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-8

Lab Sample ID: 720-2118-3

Date Sampled: 02/15/2006 0742

Client Matrix: Water

Date Received: 02/15/2006 1722

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### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-6007	Instrument ID: Varian DRO4
Preparation:	3511	Prep Batch: 720-5758	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 35.00 mL
Date Analyzed:	02/26/2006 1305		Final Weight/Volume: 2 mL
Date Prepared:	02/21/2006 0724		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C9-C24)	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	113		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-6

Lab Sample ID: 720-2118-4

Date Sampled: 02/15/2006 0818

Client Matrix: Water

Date Received: 02/15/2006 1722

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### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B

Analysis Batch: 720-6007

Instrument ID: Varian DRO4

Preparation: 3511

Prep Batch: 720-5758

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 35.00 mL

Date Analyzed: 02/26/2006 1333

Final Weight/Volume: 2 mL

Date Prepared: 02/21/2006 0724

Injection Volume:

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C9-C24)	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	109		60 - 130

**Analytical Data**

Client: TRC Solutions

Job Number: 720-2118-1

**Client Sample ID: MW-7**

Lab Sample ID: 720-2118-5

Date Sampled: 02/15/2006 0806

Client Matrix: Water

Date Received: 02/15/2006 1722

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**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

Method:	8015B	Analysis Batch: 720-6007	Instrument ID: Varian DRO4
Preparation:	3511	Prep Batch: 720-5758	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 35.00 mL
Date Analyzed:	02/26/2006 1400		Final Weight/Volume: 2 mL
Date Prepared:	02/21/2006 0724		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C9-C24)	470		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	102		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2118-1

Client Sample ID: MW-2

Lab Sample ID: 720-2118-6

Date Sampled: 02/15/2006 0755

Client Matrix: Water

Date Received: 02/15/2006 1722

---

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-6007	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-5758	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	02/26/2006 1427			Final Weight/Volume:	2 mL
Date Prepared:	02/21/2006 0724			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics (C9-C24)	230		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	105		60 - 130

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2118-1

**Method Blank - Batch: 720-6118**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: MB 720-6118/17  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/27/2006 1133  
Date Prepared: 02/27/2006 1133

Analysis Batch: 720-6118  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900A  
Lab File ID: c:\satumws\data\200602\02  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	102	77 - 121
1,2-Dichloroethane-d4	112	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2118-1

**Laboratory Control/**

**Method: 8260B**

**Laboratory Control Duplicate Recovery Report - Batch: 720-6118 Preparation: 5030B**

LCS Lab Sample ID: LCS 720-6118/16  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 02/27/2006 0958  
 Date Prepared: 02/27/2006 0958

Analysis Batch: 720-6118  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: Varian 3900A  
 Lab File ID: c:\satumws\data\200602\022  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-6118/15  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 02/27/2006 1022  
 Date Prepared: 02/27/2006 1022

Analysis Batch: 720-6118  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: Varian 3900A  
 Lab File ID: c:\satumws\data\200602\022  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	95	104	69 - 129	10	25		
MTBE	88	96	65 - 165	9	25		
Toluene	95	102	70 - 130	7	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8	100		101		77 - 121		
1,2-Dichloroethane-d4	97		101		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2118-1

**Matrix Spike/**  
**Matrix Spike Duplicate Recovery Report - Batch: 720-6118**

**Method: 8260B**  
**Preparation: 5030B**

MS Lab Sample ID: 720-2118-1  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 02/27/2006 1739  
 Date Prepared: 02/27/2006 1739

Analysis Batch: 720-6118  
 Prep Batch: N/A

Instrument ID: Varian 3900A  
 Lab File ID: c:\satumws\data\200602\02  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2118-1  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 02/27/2006 1803  
 Date Prepared: 02/27/2006 1803

Analysis Batch: 720-6118  
 Prep Batch: N/A

Instrument ID: Varian 3900A  
 Lab File ID: c:\satumws\data\200602\02  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	% Rec		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	98	98	69 - 129	0	20		
MTBE	99	96	65 - 165	3	20		
Toluene	95	94	70 - 130	1	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8	101		102		77 - 121		
1,2-Dichloroethane-d4	110		109		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2118-1

**Method Blank - Batch: 720-6127**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: MB 720-6127/7  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 03/01/2006 1130  
 Date Prepared: 03/01/2006 1130

Analysis Batch: 720-6127  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: Varian 3900A  
 Lab File ID: c:\saturnws\data\200603\03  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8	102	77 - 121
1,2-Dichloroethane-d4	111	73 - 130

**Laboratory Control/**

**Method: 8260B**

**Laboratory Control Duplicate Recovery Report - Batch: 720-6127 Preparation: 5030B**

LCS Lab Sample ID: CS 720-6127/6  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 03/01/2006 1019  
 Date Prepared: 03/01/2006 1019

Analysis Batch: 720-6127  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: Varian 3900A  
 Lab File ID: c:\saturnws\data\200603\03  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-6127/5  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 03/01/2006 1043  
 Date Prepared: 03/01/2006 1043

Analysis Batch: 720-6127  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: Varian 3900A  
 Lab File ID: c:\saturnws\data\200603\03  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	98	103	69 - 129	5	25		
MTBE	95	94	65 - 165	1	25		
Toluene	98	101	70 - 130	3	25		
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
Toluene-d8	98	102	77 - 121				
1,2-Dichloroethane-d4	102	99	73 - 130				

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2118-1

**Matrix Spike/**  
**Matrix Spike Duplicate Recovery Report - Batch: 720-6127**

**Method: 8260B**  
**Preparation: 5030B**

MS Lab Sample ID: 720-2116-B-1 MS  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 03/01/2006 1319  
 Date Prepared: 03/01/2006 1319

Analysis Batch: 720-6127  
 Prep Batch: N/A

Instrument ID: Varian 3900A  
 Lab File ID: c:\saturnws\data\200603\03  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2116-B-1 MSD  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 03/01/2006 1343  
 Date Prepared: 03/01/2006 1343

Analysis Batch: 720-6127  
 Prep Batch: N/A

Instrument ID: Varian 3900A  
 Lab File ID: c:\saturnws\data\200603\03  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	98	96	69 - 129	2	20		
MTBE	95	97	65 - 165	2	20		
Toluene	98	96	70 - 130	2	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Toluene-d8	94		95	77 - 121			
1,2-Dichloroethane-d4	98		102	73 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2118-1

**Method Blank - Batch: 720-5758**

**Method: 8015B  
Preparation: 3511**

Lab Sample ID: MB 720-5758/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/26/2006 0359  
Date Prepared: 02/21/2006 0724

Analysis Batch: 720-6007  
Prep Batch: 720-5758  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics (C9-C24)	ND		50
Surrogate	% Rec		Acceptance Limits
o-Terphenyl	113		60 - 130

**Laboratory Control/**

**Laboratory Control Duplicate Recovery Report - Batch: 720-5758**

**Method: 8015B  
Preparation: 3511**

LCS Lab Sample ID: LCS 720-5758/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/27/2006 0648  
Date Prepared: 02/21/2006 0724

Analysis Batch: 720-6007  
Prep Batch: 720-5758  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-5758/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 02/26/2006 0454  
Date Prepared: 02/21/2006 0724

Analysis Batch: 720-6007  
Prep Batch: 720-5758  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics (C9-C24)	67	65	50 - 150	3	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
o-Terphenyl	92		107			60 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

51L San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Chain Of Custody Record

39310

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

720-2118

CONOCOPhillips  
Attn: Dick Hutchinson  
3611 South Harbor, Suite 208  
Santa Ana, CA 92704

ConocoPhillips Work Order Number

3378TRC502

ConocoPhillips Cost Object

DATE: 02-15-06

PAGE: 1 of 1

STATION COMPANY:

Well Name ID:

CONOCOPhillips SITE NUMBER

ORIGINAL ID NO.:

CONOCOPhillips SITE NUMBER

LAB USE ONLY

ADDRESS:  
21 Technology Drive, Irvine CA 92618

PROJECT CONTACT: Handley or POC Request ID:  
Anju Farfan

TELEPHONE: 949-241-7440  
FAX: 949-753-0111

EMAIL: afarfan@trcsolutions.com  
CONSULTANT PROJECT NUMBER: 41830001FA20

SITE ADDRESS (Street and City):  
8510 Greenway in Hwy, Santa Ana, CA 92704

PROJECT CONTACT: Pater Thomson, TRC  
E-MAIL: pthomson@trcsolutions.com

PHONE: 949-341-7408

EMAIL: Thomas M. Kessel

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):  
 14 DAYS  7 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF END USE NEEDED:

REQUESTED ANALYSES

FIELD NOTES:  
Contains/Preservative  
or PID Readings  
or Laboratory Notes

\* Field Point name only required if different from Sample ID

Lab Use Only	Sample Identification Field Point Name*	SAMPLING DATE	TIME	MATRIX	NO OF CONT.	ANALYSIS	DATE	TIME	TEMPERATURE FOR RECEIPT C°
	DW	02/15	08:30	GW	6	8015m - TPHd Extractable			
	MW-7		07:30			8260B - TPHg/BTEX/MBE			
	MW-8		07:42			8260B - TPHg / BTEX / B Oxygenates			
	MW-6		08:18			8260B - TPHg / BTEX / B oxygenates + methanol (8015M)			
	MW-7		08:06			8260B - Full Scan VOCs (does not include oxygenates)			
	MW-2		07:55			8270C - Semi-Volatiles			
						8015M / 8021B - TPHg/BTEX/MBE			
						Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP			
						TPH-D by 8015	X		
						TPPH by 8260B	X		
						BTEX/MBE by 8260B	X		
									6005 w/HC

Prepared by (Signature)

Received by (Signature)

DATE: 02-15-06

TIME: 1245

Received by (Signature)

Received by (Signature)

DATE: 02-15-06

TIME: 1722

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: TRC Solutions

Job Number: 720-2118-1

**Login Number: 2118**

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MS.	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R -149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid -phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

### **Limitations**

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.